

A

three inches = one foot

1

0

6'

B

one and one half inches = one foot

2

0

6'

C

one inch = one foot

2

0

6'

D

three quarters inch = one foot

4

0

6'

E

one half inch = one foot

4

0

6'

F

one quarter inch = one foot

8

0

6'

G

one eighth inch = one foot

16

0

6'

STRUCTURAL SYMBOLS

NATIVE SOIL (EARTH)

COMPACTED SOIL
(FINISH GRADE)

ROCK FILL

SAND/MORTAR/PLASTER

CONCRETE (CAST-IN-PLACE OR PRECAST)

STEEL CROSS SECTION

CONCRETE BLOCK (CMU)

INDICATES SPLICE W/ FULL PENETRATION
WELD ALL AROUND

INDICATES SHEAR SPLICE
BEAM CONNECTION

TOP OF XXXX
EL. 'X'-X"

INDICATES
MOMENT
CONNECTION

AT COLUMN AT BEAM

SECTION NUMBER

SHEET CONDITION IS DETAILED

STRUCTURAL ABBREVIATIONS

A.B.	-ANCHOR BOLT	DIM	-DIMENSION
ADD'L	-ADDITIONAL	DWG.	-DRAWING
AFF	-ABOVE FINISHED FLOOR	EA	-EACH
ARCH	-ARCHITECT/ARCHITECTURAL	EF	-EACH FACE
BFF	-BELOW FINISHED FLOOR	EJ	-EXPANSION JOINT
BM	-BEAM	EL	-ELEVATION
BRG	-BEARING	ENGR	-ENGINEER
BSMT.	-BASEMENT	EOD	-EDGE OF DECK
BTM.	-BASEMENT	EO	-EDGE OF SLAB
C.I.P.	-CAST IN PLACE	EQ	-EQUIPMENT
CJ	-CONTROL JOINT	EW	-EACH WAY
CL	-CENTER LINE	EX.	-EXISTING
CLR.	-CLEAR	EXP	-EXPANSION
CMU	-CONCRETE MASONRY UNIT	EXT	-EXTERIOR
CONN	-CONNECTION	F.F.	-FINISHED FLOOR
CONST JT	-CONSTRUCTION JOINT	FFE	-FINISHED FLOOR ELEVATION
COL.	-COLUMN	FIN.	-FINISH(ED)
CONC.	-CONCRETE	FLR.	-FLOOR
CONST.	-CONSTRUCTION	FND.	-FOUNDATION
CONT.	-CONTINUOUS	FTG.	-FOOTING
COORD.	-COORDINATE	GA	-GAUGE/GAGE
DBA	-DEFORMED BAR ANCHOR	GALV.	-GALVANIZE (D) (ING)
DB'L	-DOUBLE	HI	-HIGH
DET.	-DETAIL	HORZ.	-HORIZONTAL
DIAG	-DIAGONAL	MTL.	-METAL
DIA	-DIAMETER	O.C.	-ON CENTER
		REF.	-REFERENCE
		SIM.	-SIMILAR
		SQ. FT.	-SQUARE FOOT/FEET
		T.O.	-TOP OF
		U.N.O.	-UNLESS NOTED OTHERWISE
		W/	-WITH

STRUCTURAL NOTES

STRUCTURAL NOTES – GENERAL

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO INSERTS, ANCHORS, SLEEVES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK INCLUDING TEMPORARY LATERAL BRACING.
- ALL PROPRIETARY COMPONENTS SHALL BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

BUILDING CODES: UFC 3 301 01 "STRUCTURAL DESIGN" AND THE INTERNATIONAL BUILDING CODE 2012 AS REFERENCED

FLOOR LIVE LOADS:
FLOOR LOADS AND FUTURE FLOORS: 100 PSF
MECHANICAL / ELECTRICAL ROOMS: 150 PSF
FLOOR CONCENTRATED LOADS: 2000 LBS EVERY 2.5 SF
ROOF LIVE LOAD: 20 PSF
FLOOR DEAD LOADS: WEIGHT OF MATERIALS
ROOF DEAD LOAD: WEIGHT OF MATERIALS

WIND LOADS: BASIC WIND SPEED (STRENGTH LEVEL) V_{ult} = 120 MPH
RISK CATEGORY = IV
WIND EXPOSURE = B
INTERNAL PRESSURE COEFFICIENT, GCP_i = $+/-0.18$

SEISMIC LOADS:SITE CLASS : C
 S_s = 0.40, S_1 = 0.16
 S_{ds} = 0.32, S_{d1} =0.18

SEISMIC FORCE RESISTING SYSTEM:
ORDINARY STEEL MOMENT FRAMES
 R = 3.5
 ρ_o = 3.0
 C_d = 3.0

SEISMIC DESIGN CATEGORY : C

DESIGN PRESSURE FOR OPENINGS:

OPENINGS MORE THAN 4'-0" FROM CORNERS : 30 PSF
OPENINGS LESS THAN 4'-0" FROM CORNERS : 35 PSF

ROOF DESIGN PRESSURES (AT ASD LEVEL):

ZONE 1 (> 3 FT. FROM EDGES) : 23 PSF
ZONE 2 (< 3 FT. FROM EDGES) : 39 PSF
ZONE 3 (< 3 FT. FROM CORNERS) : 58 PSF
OVERHANGS : 51 PSF

SUBMITTALS

- AS A MINIMUM THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW:
 - * CONCRETE MIX DESIGN.
 - * LIGHT GAUGE STEEL SHOP DRAWINGS
 - * STRUCTURAL STEEL SHOP DRAWINGS
 - * BRICK MASONRY MORTAR MIS DESIGN (S)
 - * EPOXY SYSTEM SUBMITTALS
 - * REBAR SHOP DRAWINGS
- SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATION PROCEDURES SHALL BE AS DEFINED IN CHAPTER 17 OF THE 2012 INTERNATIONAL BUILDING CODE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING AN INDEPENDENT THIRD PARTY INSPECTOR TO PERFORM THE SPECIAL INSPECTIONS FOR THIS WORK. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE WORK TO ALLOW FOR REQUIRED SPECIAL INSPECTIONS WITHOUT DELAYING THE PERFORMANCE OF THE WORK. A MINIMUM OF 48 HOURS ADVANCE NOTICE SHALL BE PROVIDED TO SPECIAL INSPECTORS BY THE CONTRACTOR.

SUBSTITUTIONS

- MANUFACTURER'S LISTED (I.E. SIMPSON, HILTI, ETC) ARE USED AS THE BASIS FOR DESIGN AND MAY BE SUBSTITUTED WITH AN APPROVED EQUAL PRODUCT PROVIDED THE SUBSTITUTION HAS EQUAL OR BETTER DESIGN PROPERTIES.
- SUPPLIER CONTACT INFORMATION: THE FOLLOWING SUPPLIERS, WHERE SPECIFIED HEREIN, MAY BE CONTACTED AS INDICATED BELOW.

* SIMPSON STRONG TIE: (800) 999-5099 www.strongtie.com
* HILTI: (800) 879-8000 www.us.hilti.com

FOUNDATION NOTES

- ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL, OR COMPACTED FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OF 1,500 PSF. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE TESTING AGENCY PRIOR TO POURING CONCRETE.
- UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING COVER FOR FOUNDATION REINFORCEMENT:
- BOTTOM BARS & BARS IN CONCRETE CAST AGAINST EARTH: 3"
- BARS THAT ARE EXPOSED TO WEATHER:
#5 OR SMALLER 1 1/2"
#6 OR BIGGER 2"
- ALL BARS SHALL BE LAPPED 40 X THE BAR DIAMETER AT SPLICES
- PRIOR TO COMMENCING FOUNDATION WORK, COORDINATE WORK WITH UTILITIES.

CAST-IN-PLACE CONCRETE NOTES

- CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595, AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C818, AND C-260. CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C-94.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:
LOCATION MIN f'_c
SLABS : 4000 PSI
FOOTINGS : 4000 PSI
- REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS SHALL BE LAPPED WITH A TYPE 2 SPLICE UNLESS OTHERWISE NOTED.
- BAR SUPPORTS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO ENSURE MINIMUM CONCRETE COVER. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR STAINLESS STEEL.
- CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% ($\pm 1\%$) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- MAXIMUM SLUMP FOR CONCRETE SLABS WILL BE 5" WITH TYPE II CEMENT.
- ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH. WELDED WIRE FABRIC SHALL BE ORDERED IN SHEETS, NOT ROLLS. WELDED WIRE FABRIC SHALL BE BLOCKED INTO POSITION WITH PRECAST CONCRETE BLOCKS HAVING THE SAME COMPRESSIVE STRENGTH OF THE SLAB.
- THE ALTERNATE WIRES OF THE WELDED WIRE FABRIC MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A "WEAKENED PLANE".
- THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED.
- ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR FILL MATERIAL WITH 100% PASSING THE 1/2" SIEVE AND NO MORE THAN 5% PASSING THE NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 98% MAX DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR METHOD.
- SLAB JOINTS SHALL BE FILLED WITH A SEALANT PER THE MANUFACTURER RECOMMENDATIONS.
- SLABS EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% ($\pm 1\%$) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- THE SLAB SHALL BE WET CURED BY KEEPING THE SLAB MOIST FOR A PERIOD OF SEVEN DAYS. ALTERNATIVELY, PROVIDE A WET-CURING SEALANT PER THE MANUFACTURERS RECOMMENDATIONS.

SLAB ON GRADE NOTES

- PROVIDE CONCRETE SLABS OVER 10 MIL POLYETHYLENE VAPOR BARRIER AND 4" OF POROUS FILL. AS FOLLOWS: 4"SLAB REINFORCED WITH 6x6-W2.1xW2.1 WELDED WIRE FABRIC AND WITH 4,000 PSI MIX CONCRETE
- MAXIMUM SLUMP FOR CONCRETE SLABS WILL BE 5" WITH TYPE II CEMENT.
- ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH. WELDED WIRE FABRIC SHALL BE ORDERED IN SHEETS, NOT ROLLS. WELDED WIRE FABRIC SHALL BE BLOCKED INTO POSITION WITH PRECAST CONCRETE BLOCKS HAVING THE SAME COMPRESSIVE STRENGTH OF THE SLAB.
- THE ALTERNATE WIRES OF THE WELDED WIRE FABRIC MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A "WEAKENED PLANE".
- THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED.
- ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR FILL MATERIAL WITH 100% PASSING THE 1/2" SIEVE AND NO MORE THAN 5% PASSING THE NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 98% MAX DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR METHOD.
- SLAB JOINTS SHALL BE FILLED WITH A SEALANT PER THE MANUFACTURER RECOMMENDATIONS.
- SLABS EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% ($\pm 1\%$) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- THE SLAB SHALL BE WET CURED BY KEEPING THE SLAB MOIST FOR A PERIOD OF SEVEN DAYS. ALTERNATIVELY, PROVIDE A WET-CURING SEALANT PER THE MANUFACTURERS RECOMMENDATIONS.

CONSTRUCTION JOINTS

- ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE CODE SECTION AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
- ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS FOR APPROVAL BY THE STRUCTURAL ENGINEER BEFORE STARTING CONSTRUCTION.

METAL DECK

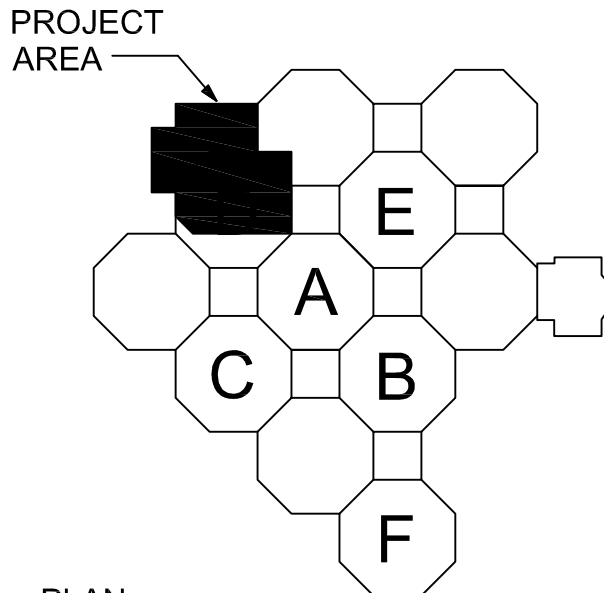
- INSTALL DECKING PER AWS S1.3, AND FOLLOW ANSI/SDI QA/QC-2001 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK TO PROMOTE QUALITY IN DECK INSTALLATION
- MECHANICAL FASTENERS OF EQUAL CAPACITY ARE ACCEPTABLE TO WELDED CONNECTIONS SHOWN

EMBEDDED ITEMS AND ANCHORS FOR CONCRETE AND MASONRY

- ALL BOLTS OR REINFORCING BAR DOWELS ATTACHED TO EXISTING CONSTRUCTION SHALL BE EPOXY GROUTED INTO EXISTING CONCRETE U.O.N. EPOXY GROUTED ANCHORS SHALL HAVE EQUIVALENT DESIGN VALUES TO THE PUBLISHED DESIGN VALUES BY HILTI HIT RE-500 (ICBO REPORT NO. ESR-2322). SUBMIT TECHNICAL DATA TO STRUCTURAL ENGINEER FOR APPROVAL.
- WHEN INSTALLING ANCHOR BOLTS, INSERTS, OR DOWELS INTO EXISTING CONCRETE, USE A MECHANICAL REBAR LOCATING DEVICE TO LOCATE EXISTING REINFORCING AND DRILL HOLE TO MISS REINFORCEMENT.
- ALL ANCHORS NOTED AS EXPANSION (EXP) ANCHORS SHALL HAVE EQUIVALENT DESIGN VALUES TO THE PUBLISHED DESIGN VALUES TO HILTI KWIK BOLT-TZ (ICBO REPORT NO. ESR-1917). SUBMIT TECHNICAL DATA TO THE STRUCTURAL ENGINEER FOR APPROVAL.

STRUCTURAL STEEL

- ALL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC STEEL CONSTRUCTION MANUAL. WELDING SHALL CONFORM TO THE LATEST AWS AND AISC SPECIFICATIONS.
- WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE AND WITHIN THE TOLERANCES SPECIFIED IN THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL.
- IT IS SPECIFICALLY NOTED THAT BURNED HOLES ARE NOT ACCEPTABLE UNLESS SPECIAL PERMISSION IS GIVEN BY ENGINEER.
- ALL SHOP FABRICATED WORK SHALL BE DONE IN A SHOP APPROVED BY THE GOVERNING AGENCY. FABRICATOR SHALL SUBMIT PROGRAM OF WELDING INSPECTION TO ENGINEER FOR APPROVAL.
- ALL STRUCTURAL STEEL SHALL BE AS FOLLOWS UNO:
ALL WF, WT SHAPES A992 GRADE 50
CONNECTION PL AND MISC. STEEL ASTM A36
GUSSET AND COLLECTOR PLATES ASTM A572 GRADE 50
PIPE COLUMNS (TYPE S, SEAMLESS) ASTM A53 GRADE B
STRUCTURAL TUBING ASTM A500 GRADE B
ANGLE, CHANNELS ASTM A36
THREADED ROD ASTM A36
STAINLESS STEEL TYPE 316, 50 KSI
- ALL HIGH STRENGTH BOLTS SHALL BE ASTM A325-N TYPE UNLESS OTHERWISE NOTED.
- ALL BOLTS USED FOR ERECTION SHALL BE ASTM A325 TYPE WITH THREADS EXCLUDED FROM SHEAR PLANES.
- ALL PLAIN ANCHORS SHALL BE A36; ALL ANCHOR BOLTS SHALL COMPLY WITH ASTM F1554. 3" MINIMUM CONCRETE COVER WILL BE PLACED AROUND ALL ANCHOR BOLTS EXPOSED TO THE WEATHER, U.N.O.
- WELDING MATERIALS: PROVIDE TYPE REQUIRED FOR MATERIALS BEING WELDED, PER AWS D1.1.
- PROVIDE CONTINUOUS INSPECTION FOR ALL FABRICATION AND WELDING OF STRUCTURAL STEEL IN ACCORDANCE WITH CODE REQUIREMENTS. ALL COMPLETE PENETRATION GROOVE WELDS IN JOINTS AND SPLICES SHALL BE TESTED 100 PERCENT IN ACCORDANCE WITH IBC. USE ONE OF THE APPROVED METHODS OF TIGHTENING HIGH STRENGTH BOLTS.
- A WELDING SEQUENCE SHALL BE PLANNED TO MINIMIZE RESIDUAL STRESSES AND DISTORTIONS OF INDIVIDUAL MEMBERS AND THE BUILDING FRAME. ALL DETAILING, FABRICATION, AND ERECTION SHALL COMPLY WITH AISC, LATEST EDITION.
- UNLESS OTHERWISE NOTED, ALL STIFFENER PLATES ARE 3/8" THICK MINIMUM AND ALL BUTT WELDS ARE FULL PENETRATION WELDS. ERECTION CLIPS, TEMPORARY BRACING, ETC., REQUIRED BY THE CONTRACTOR ARE NOT SHOWN.
- SUBMIT SHOP DRAWINGS FOR THE FABRICATION AND ERECTION OF ALL ASSEMBLIES OF STRUCTURAL STEEL WORK. INCLUDE PLANS AND ELEVATIONS AT NOT LESS THAN 1/8" TO 1'-0" SCALE, AND INCLUDE DETAILS OF SECTIONS AT NOT LESS THAN 1" TO 1'-0" SCALE.
- NO FINISH FABRICATION SHALL BE COMMENCED OR MATERIAL DELIVERED TO THE JOB UNTIL THE ENGINEER HAS REVIEWED AND APPROVED THE SHOP DRAWINGS.
- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF ZINC CHROMATE PRIMER OR EQUAL. AFTER ERECTION, FIELD CONNECTIONS SHALL BE TOUCHED UP. DO NOT PAINT PORTION OF STEEL TO BE EMBEDDED IN CONCRETE, HEADED ANCHOR STUDS, FAYING SURFACES OR AREAS TO RECEIVE FIRE PROOFING. EXTERIOR, EXPOSED STEEL MEMBERS ARE SPECIFIED TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC MANUAL OF STEEL CONSTRUCTION LATEST EDITION. THIS INCLUDES OPEN WEB JOIST CONNECTIONS.
- THE USE OF E70T-4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION.

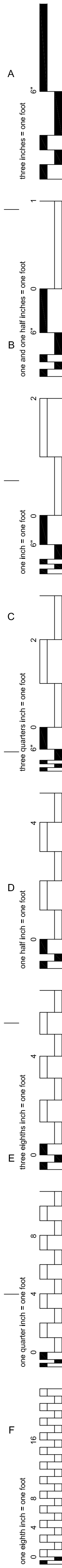


PLAN NORTH

KEY PLAN
EDMH F.F.E.: 398.00'
PROJECT AREA: 17,075 S.F.

CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:		Date:	ARCHITECT/ENGINEERS:		Drawing Title STRUCTURAL NOTES		Project Title EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		Project Number CSI-112		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM	
			BES DESIGN/BUILD		Approved: Project Director		Location LITTLE ROCK, ARKANSAS		Building Number 1			
			BES DESIGN/BUILD		Date 2015.03.06		Drawn Michaels		Checked Richardson		Dwg. 19 of 127	
			BES DESIGN/BUILD		Date 2015.03.06		Drawn Michaels		Checked Richardson		Dwg. 19 of 127	



STRUCTURAL STEEL (CONT.)

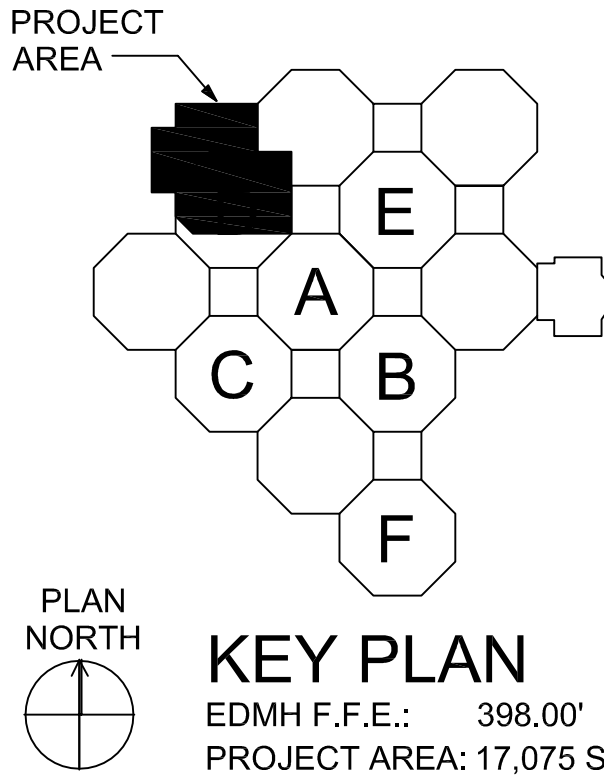
16. WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER THE RECOMMENDATIONS OF THE AMERICAN WELDING SOCIETY (AWS) SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO ANY WELDING OF THE STRUCTURAL STEEL. THE WELDING PROCEDURES SHALL INCLUDE ALL THE WELDED JOINTS AND CONFIGURATIONS TO BE USED ON THIS PROJECT-ONLY WPS WHICH ARE RELEVANT TO THIS PROJECT SHALL BE SUBMITTED. ALL WELDED JOINTS SHALL BE PRE-QUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.
17. DO NOT WELD ANY STRUCTURAL STEEL MEMBER OR CONNECTION UNLESS EXPLICITLY CALLED OUT IN THE CONTRACT DOCUMENTS.
18. WELD SYMBOLS SHOW FINAL WELD REQUIRED. THE CHOICE TO WELD IN THE FIELD OR IN THE SHOP SHALL BE UP TO THE CONTRACTOR AND SHALL BE INDICATED IN THE FABRICATOR'S SHOP DRAWINGS.
19. ALL STRUCTURAL STEEL SHALL BE PROPERLY GUYED AND BRACED UNTIL FLOOR AND ROOF FRAMING SYSTEM AND LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
20. THIS STRUCTURE IS CONSIDERED A NON-SELF-SUPPORTING STEEL FRAME. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORTS UNTIL ALL PERMANENT SHEAR WALLS, MOMENT FRAMES, BRACED FRAMES, AND FLOOR SLABS ARE IN PLACE.
21. DETAIL STEEL BEAM CONNECTIONS AS SIMPLE SPAN BEAMS, UNLESS OTHERWISE NOTED.
22. ALL BEAM CONNECTIONS SHALL BE DETAILED TO PROVIDE A SHEAR CONNECTION WITH A MINIMUM DESIGN CAPACITY AS THAT SHOWN IN THE DRAWINGS BEAM SHEAR TAB CONNECTION TABLE FOR THE CORRESPONDING BEAM SIZE.
23. ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE DESIGNED AS AISC TYPE 2 BOLTED CONNECTIONS DESIGNED FOR FULL LOAD CAPACITY OF THE CONNECTING MEMBERS. MOMENT CONNECTIONS NOT OTHERWISE NOTED ON THE PLANS SHALL BE DESIGNED AS A TYPE 1 (FULLY RESTRAINED) MOMENT CONNECTION WITH FULL MOMENT CAPACITY OF THE MEMBER.
24. ALL BOLTS IN MOMENT CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
25. ALL BOLTS IN HANGER CONNECTIONS SHALL BE PRE-TENSIONED.
26. ALL WELDS SHALL BE MADE BY WELDERS CERTIFIED ACCORDING TO AWS PROCEDURES.

METAL STUDS AND JOISTS

1. MATERIAL SHALL CONFORM TO ASTM A 446 GRADE D WITH MIN. YIELD POINT OF 50 KSI
2. MATERIAL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 525, G60 COATING DESIGNATION.
3. MATERIAL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 525, G60 COATING DESIGNATION.
4. WELDING SHALL CONFORM TO AISI & AWS D1.3 SPECIFICATIONS.
5. ALL CONNECTIONS SHALL BE SCREWED OR WELDED PER DRAWINGS.
6. STUDS SHALL BE INSTALLED AS INDICATED ON DRAWINGS. PROVIDE MIN. ONE JACK STUDS & TWO FULL HEIGHT STUDS AT EACH END OF THE OPENINGS U.N.O.
7. STUDS SHALL HAVE A BRIDGING LINE INSTALLED AT A MAXIMUM DISTANCE OF 4'-0".
8. THE NOMENCLATURE USED ON DRAWINGS IS PER SSMA & AISI. THE SECTIONS SUPPLIED BY THE MANUFACTURER SHALL MEET OR EXCEED THE STRENGTH OF SPECIFIED MEMBERS.

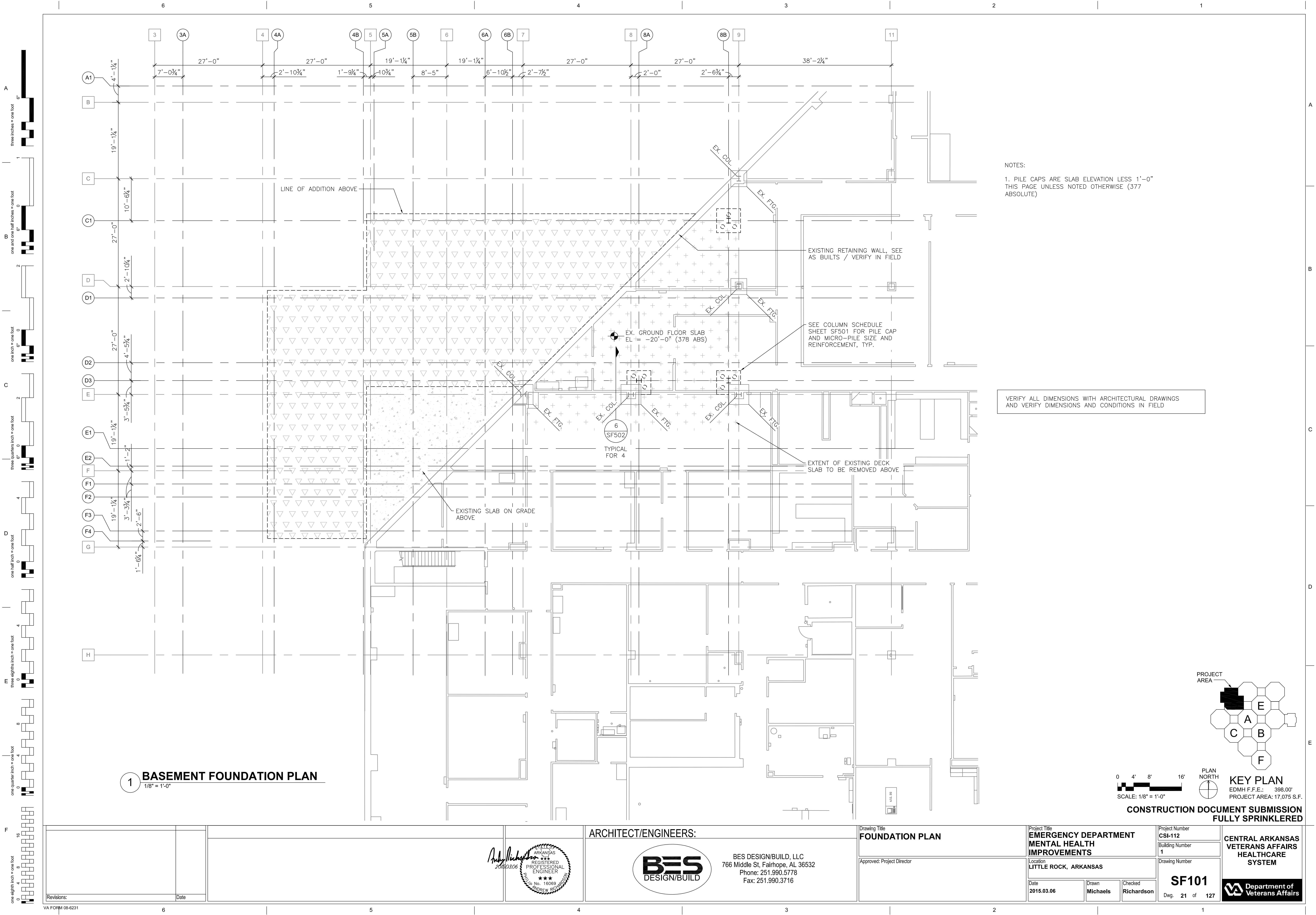
METAL STUDS AND JOISTS (CONT.)

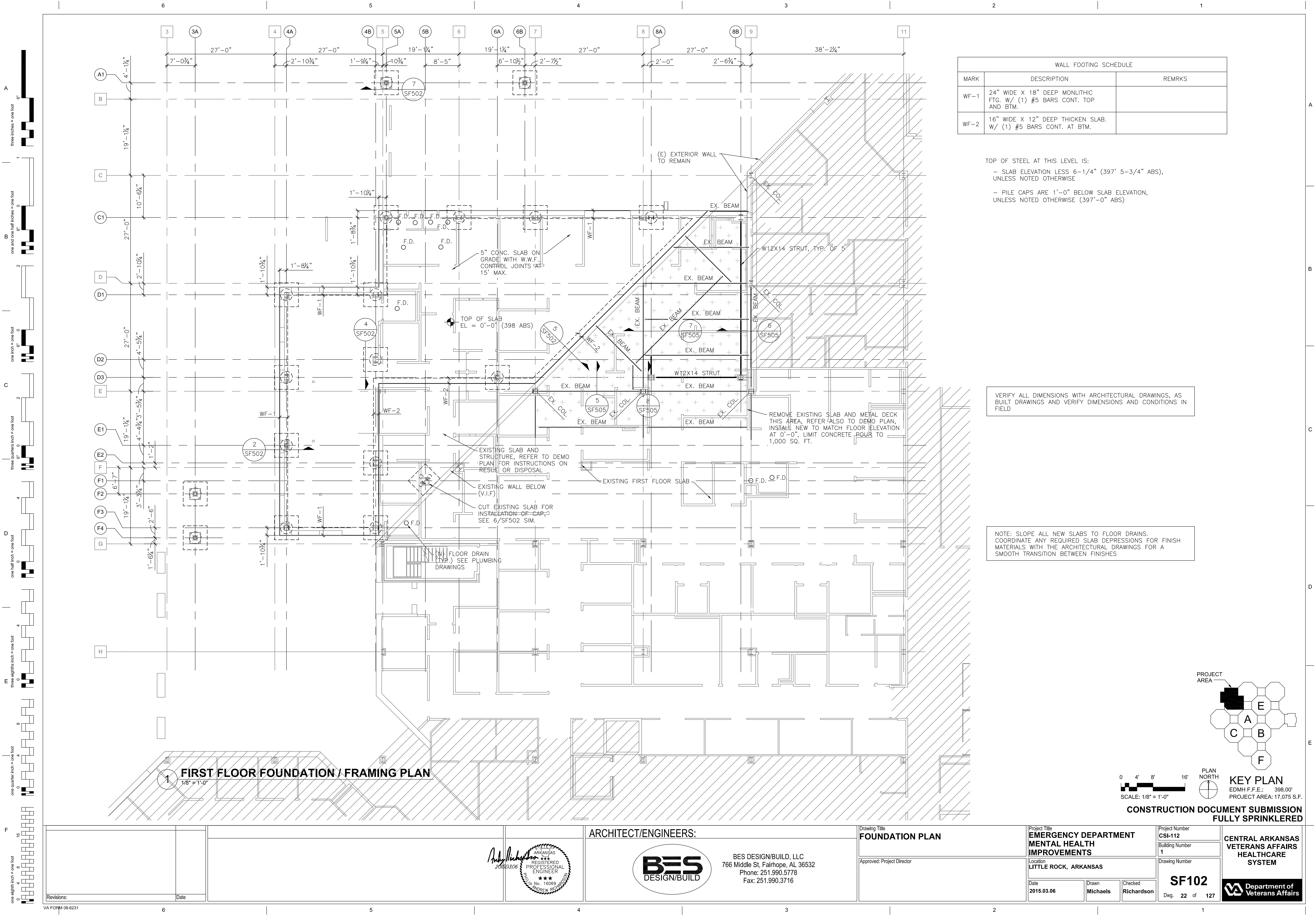
9. FOR SCREWS 3/4" MINIMUM CLEARANCE MUST BE MAINTAINED FROM ALL EDGES OF THE STEEL MEMBERS. A 3/4" MINIMUM ON CENTER SPACING MUST BE MAINTAINED BETWEEN ADJACENT SCREWS.
10. PROVIDE BOTTOM TRACK 18 GA MINIMUM U.N.O.
11. PROVIDE (1)#10-16 SCREW EACH FLANGE AT SIDE EACH STUD TO TOP/BOTTOM TRACK U.N.O.
12. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IN NOT PERMITTED.
13. NO NOTCHING OR COPING OF STUDS IS ALLOWED UNLESS STATED WITHIN THE DRAWINGS PACKAGE.
14. END STUDS MUST BE SEATED IN RUNNER TRACK, WHICH MUST HAVE FULL BEARING ON STRUCTURE.
15. FRAMING CONTRACTOR IS TO ENSURE PUNCHOUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS. LATERAL BRACING MUST BE INSTALLED AT THE TIME THE WALL IS ERECTED.
16. USE MINIMUM OF THREE STUDS AT THE CORNERS OF ALL EXTERIOR WALLS U.N.O.
17. ALL METAL TO METAL SCREW CONNECTIONS ARE BASED ON SECTION E4 OF THE 2012 AISI SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL MEMBERS WHICH OUTLINES PROVISIONS FOR METAL TO METAL SCREW CONNECTIONS.
18. POWER DRIVEN FASTENERS SYSTEMS AND EXPANSION ANCHORS SYSTEMS ARE BASED ON LITERATURE PUBLISHED BY HILTI FASTENING SYSTEMS INC. ALTERNATE MANUFACTURE'S FASTENERS OF COMPARABLE SPECIFICATION AND LOAD CAPACITY ARE ACCEPTABLE. PROVIDE SHOP DRAWINGS AND LITERATURE OF ALTERNATES.
19. SHOP DRAWINGS SHALL BE PROVIDED FOR LIGHT GAUGE FRAMING, INCLUDING CONNECTIONS, BRIDGING AND BRACING PROVISIONS



CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

<div>Revisions:</div> <div>Date</div>		<div></div>		<div>ARCHITECT/ENGINEERS:</div> <div></div> <div>BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716</div>		<div>Drawing Title</div> <div>STRUCTURAL NOTES</div>		<div>Project Title</div> <div>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</div>		<div>Project Number</div> <div>CSI-112</div>		<div>Building Number</div> <div>1</div>		<div>Location</div> <div>LITTLE ROCK, ARKANSAS</div>		<div>Date</div> <div>2015.03.06</div>		<div>Drawn</div> <div>Michaels</div>		<div>Checked</div> <div>Richardson</div>		<div>Drawing Number</div> <div>SS102</div>		<div>Dwg. 20 of 127</div>		<div>CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM</div>		<div></div> <div>Department of Veterans Affairs</div>	
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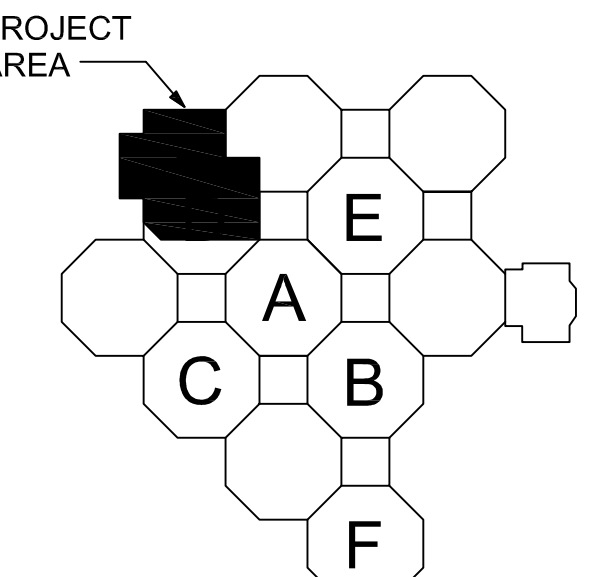
WALL FOOTING SCHEDULE		
MARK	DESCRIPTION	REMRKS
WF-1	24" WIDE X 18" DEEP MONLITHIC FTG. W/ (1) #5 BARS CONT. TOP AND BTM.	
WF-2	16" WIDE X 12" DEEP THICKEN SLAB. W/ (1) #5 BARS CONT. AT BTM.	

TOP OF STEEL AT THIS LEVEL IS:

- SLAB ELEVATION LESS 6-1/4" (397' 5-3/4" ABS), UNLESS NOTED OTHERWISE
- PILE CAPS ARE 1'-0" BELOW SLAB ELEVATION, UNLESS NOTED OTHERWISE (397'-0" ABS)

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS, AS BUILT DRAWINGS AND VERIFY DIMENSIONS AND CONDITIONS IN FIELD

NOTE: SLOPE ALL NEW SLABS TO FLOOR DRAINS. COORDINATE ANY REQUIRED SLAB DEPRESSIONS FOR FINISH MATERIALS WITH THE ARCHITECTURAL DRAWINGS FOR A SMOOTH TRANSITION BETWEEN FINISHES




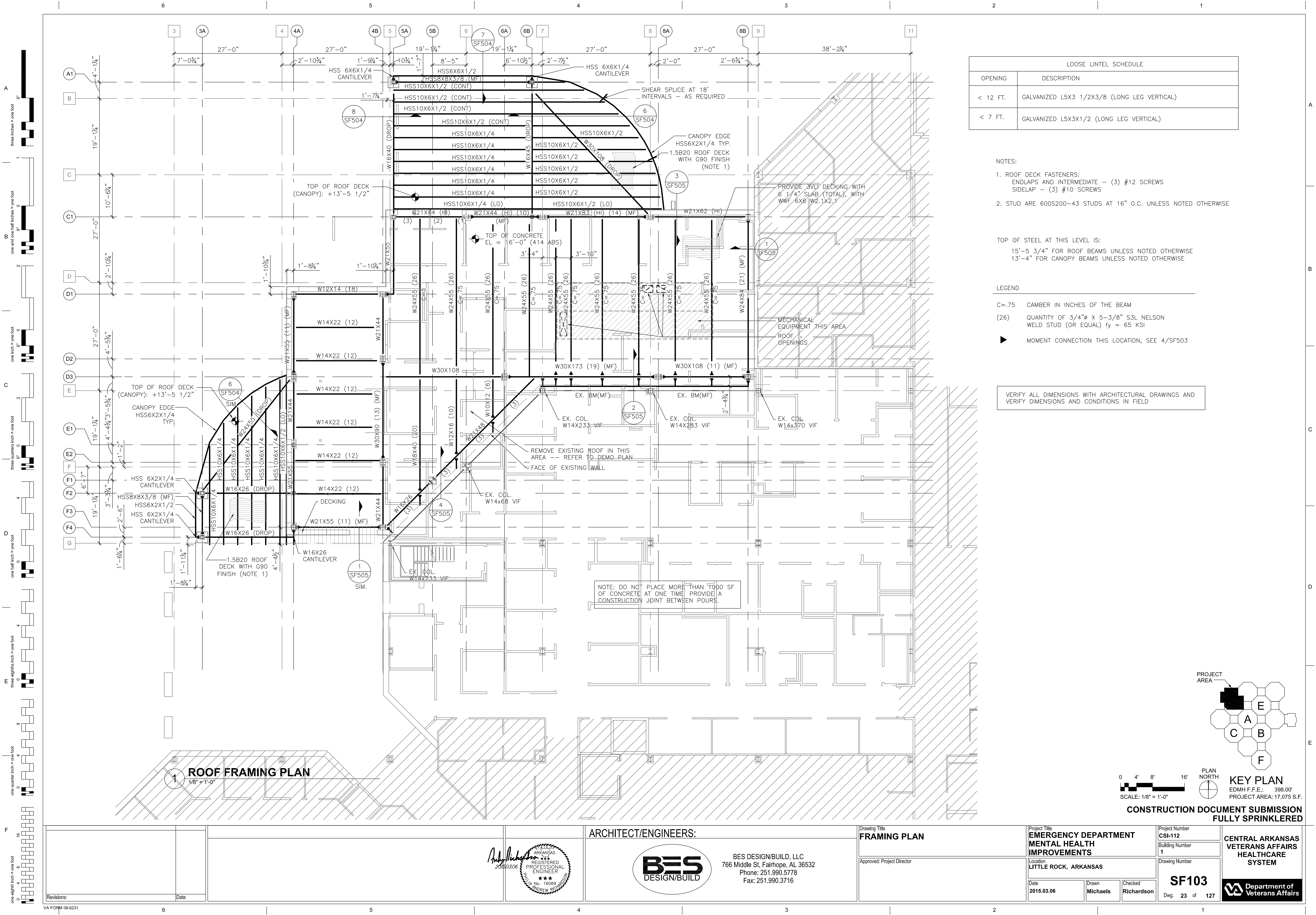
0 4' 8' 16'
SCALE: 1/8" = 1'-0"

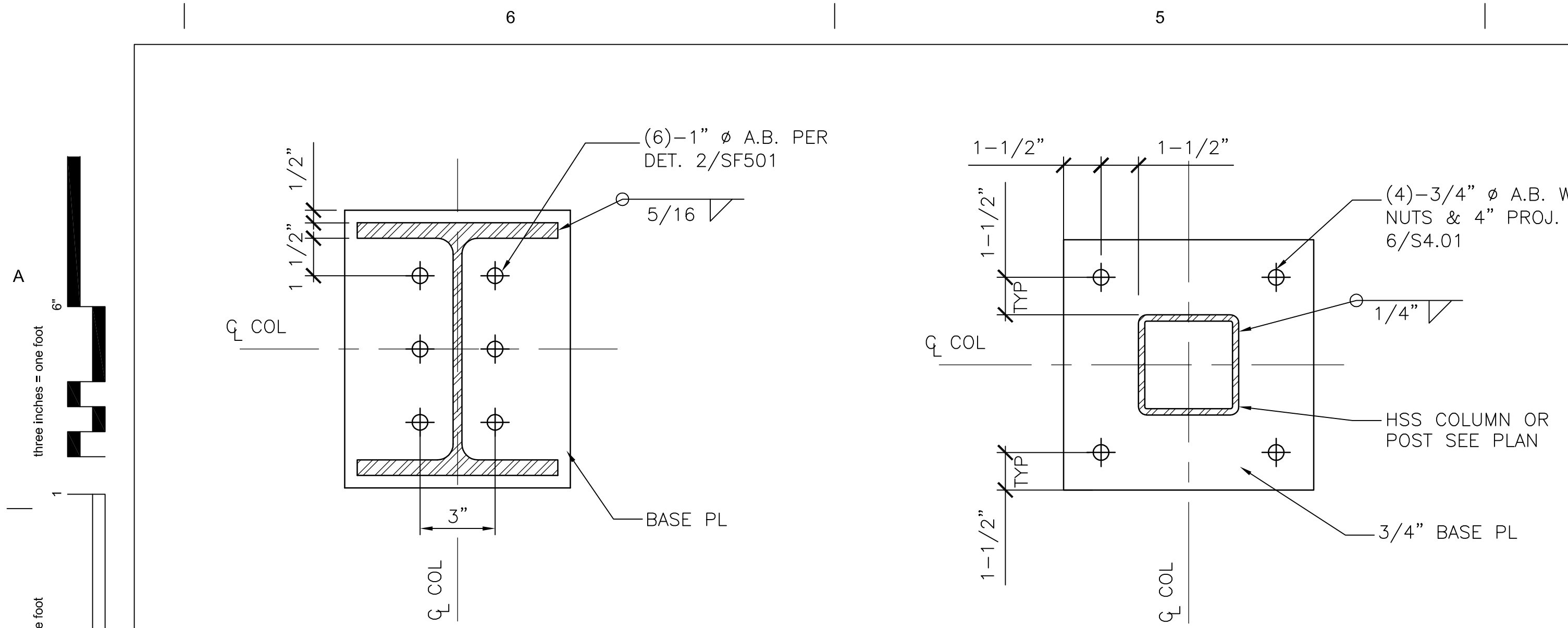


KEY PLAN
EDMH F.F.E.: 398.00'
PROJECT AREA: 17,075 S.F.

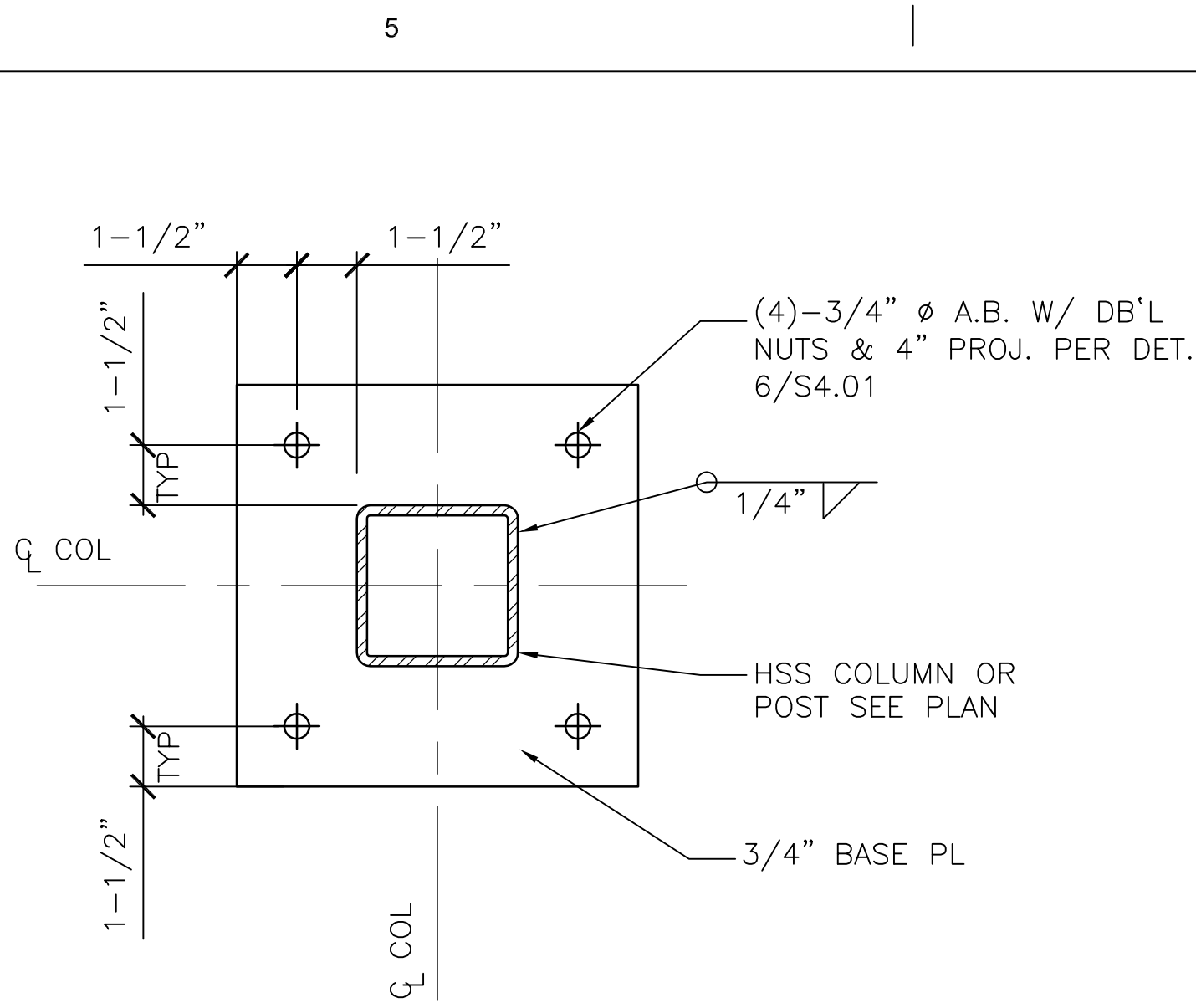
CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:		Date:	ARCHITECT/ENGINEERS:		Drawing Title: FOUNDATION PLAN	Project Title: EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		Project Number: CSI-112		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM		
			 BES DESIGN/BUILD, LLC 766 Middle St. Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Approved: Project Director		Location: LITTLE ROCK, ARKANSAS		Building Number: 1			
					Date: 2015.03.06		Drawn: Michaels		Checked: Richardson			
									SF102			
									Dwg. 22 of 127			

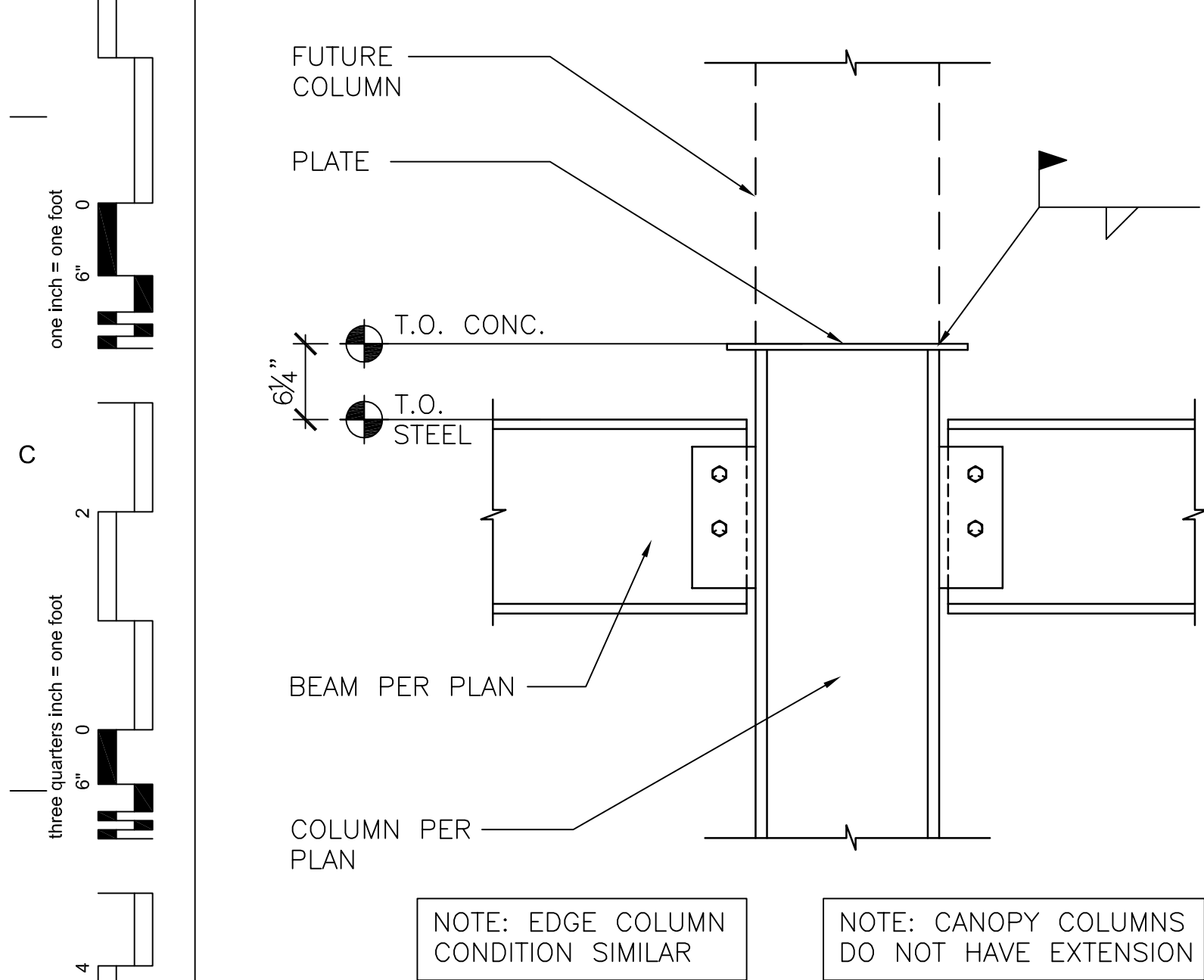




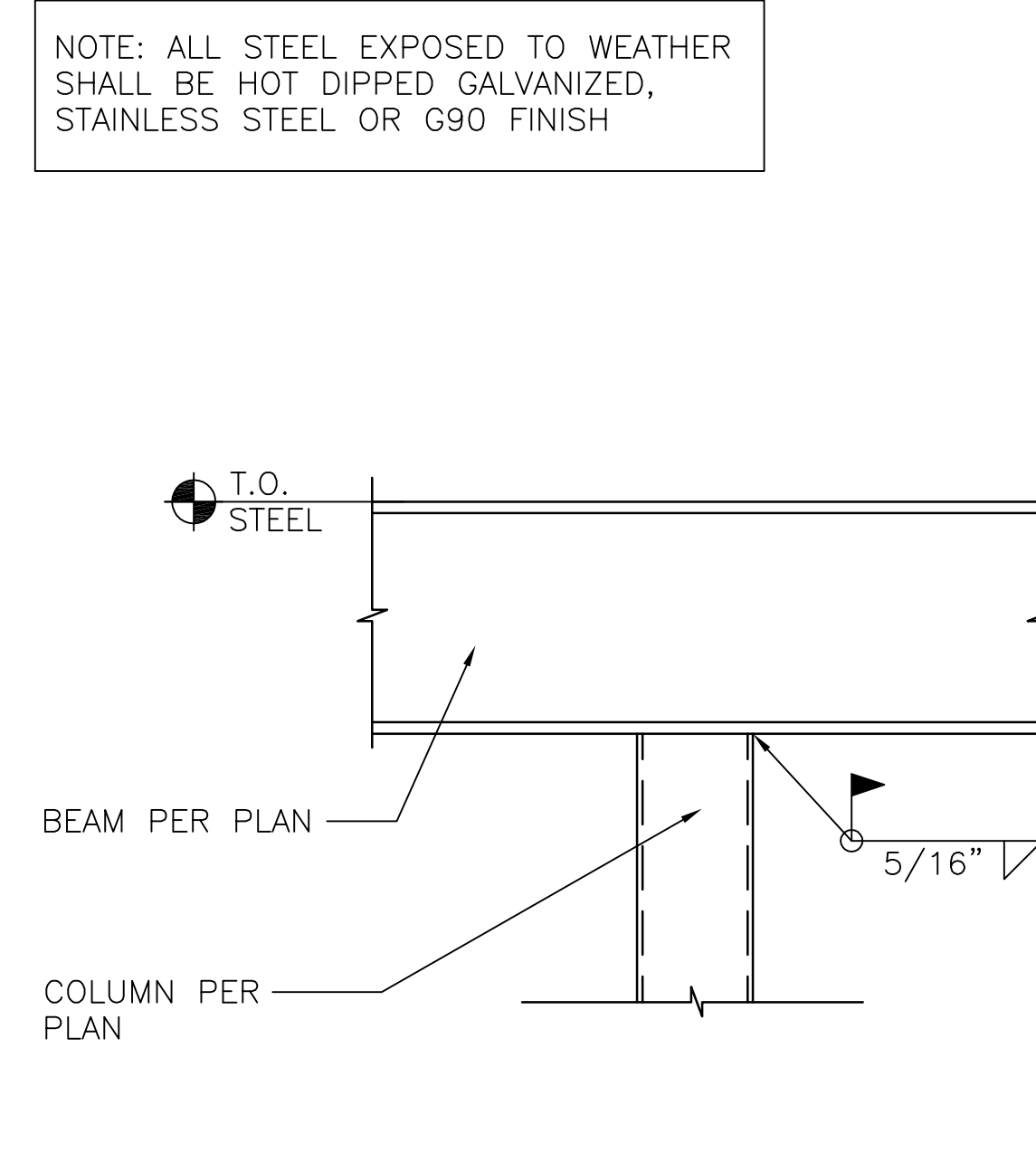
5 W COL. BASE PLATE DETAIL
NTS



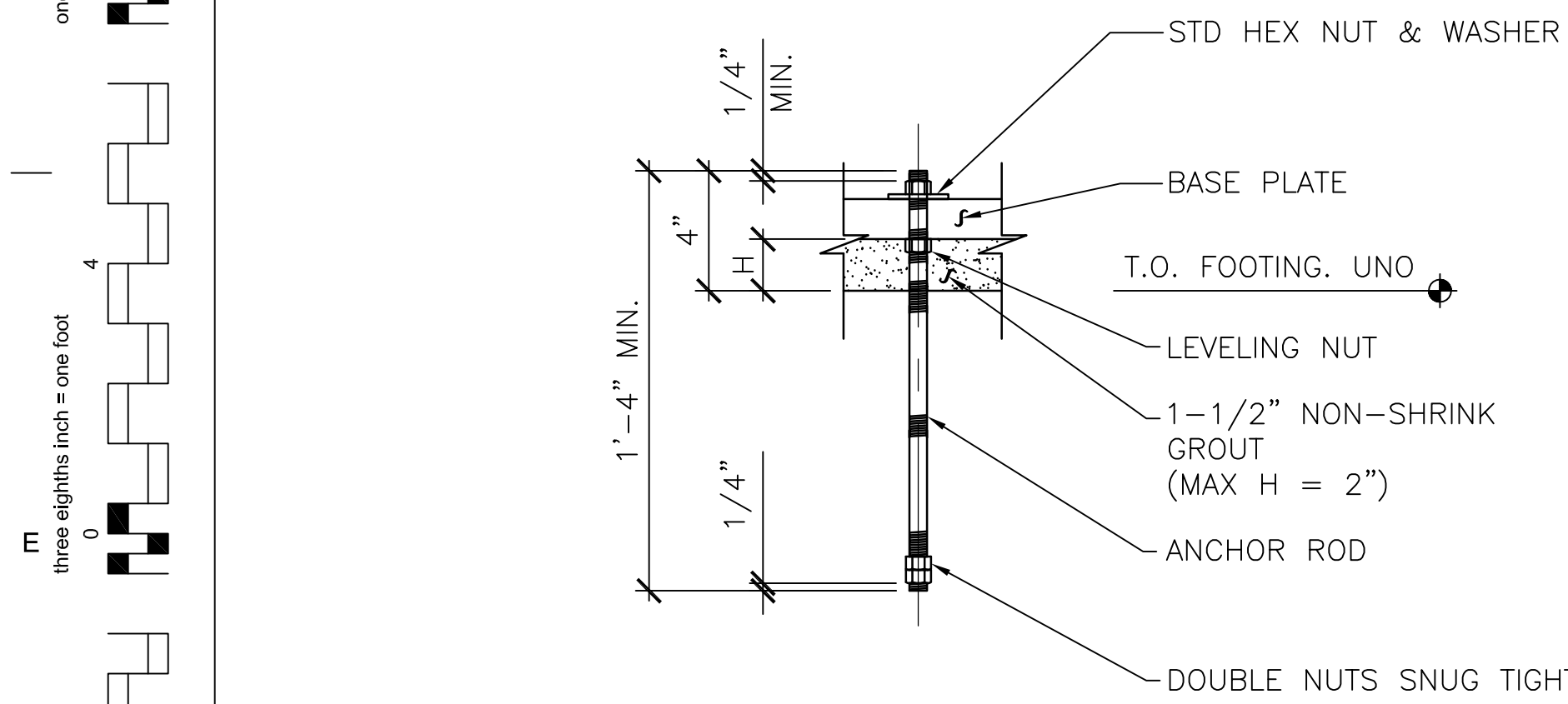
4 HSS BASE PLATE DETAIL
NTS



3 DETAIL
1" = 1'-0"



9 DETAIL
1" = 1'-0"

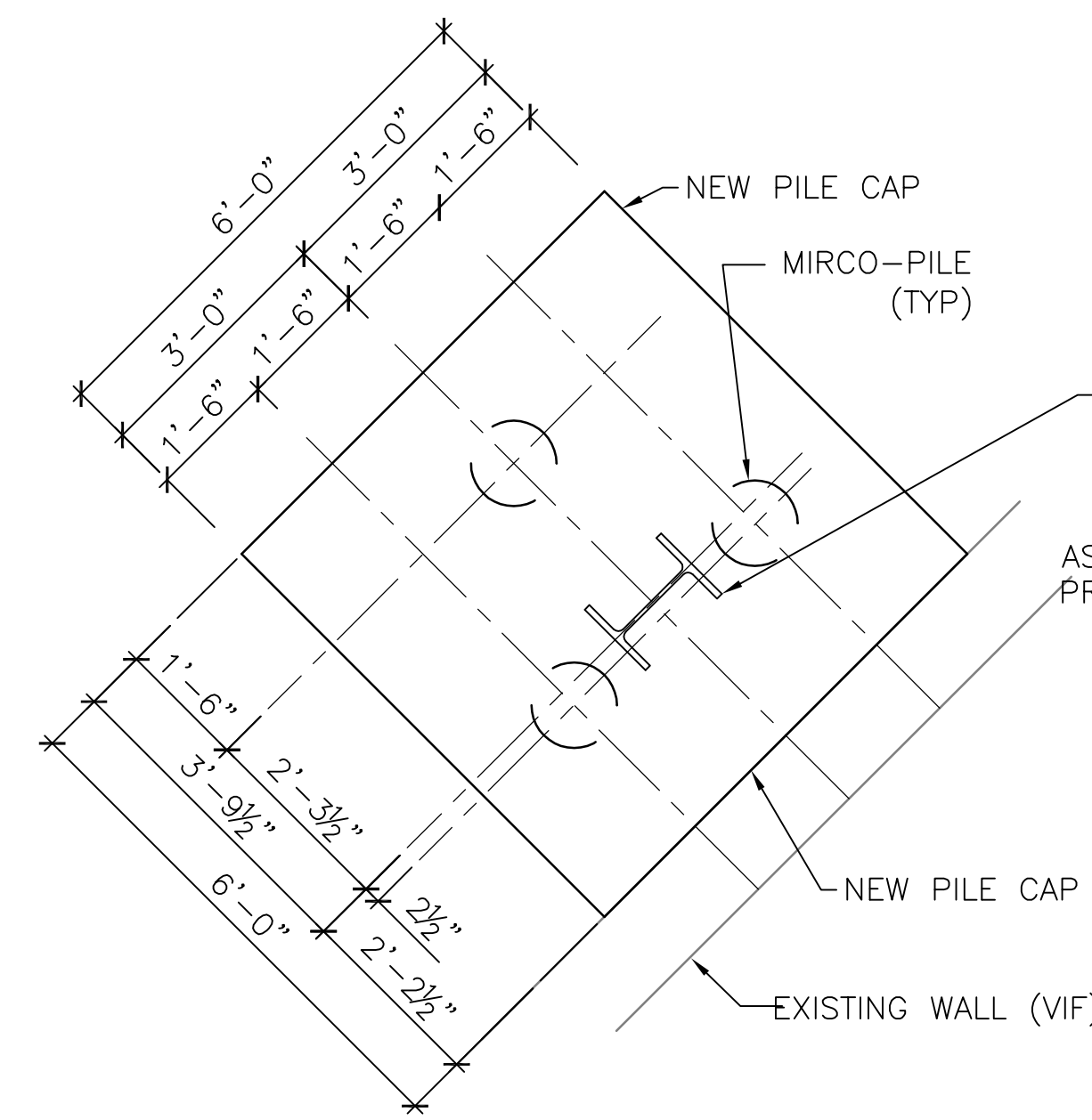


2 ANCHOR BOLT DETAIL
NTS

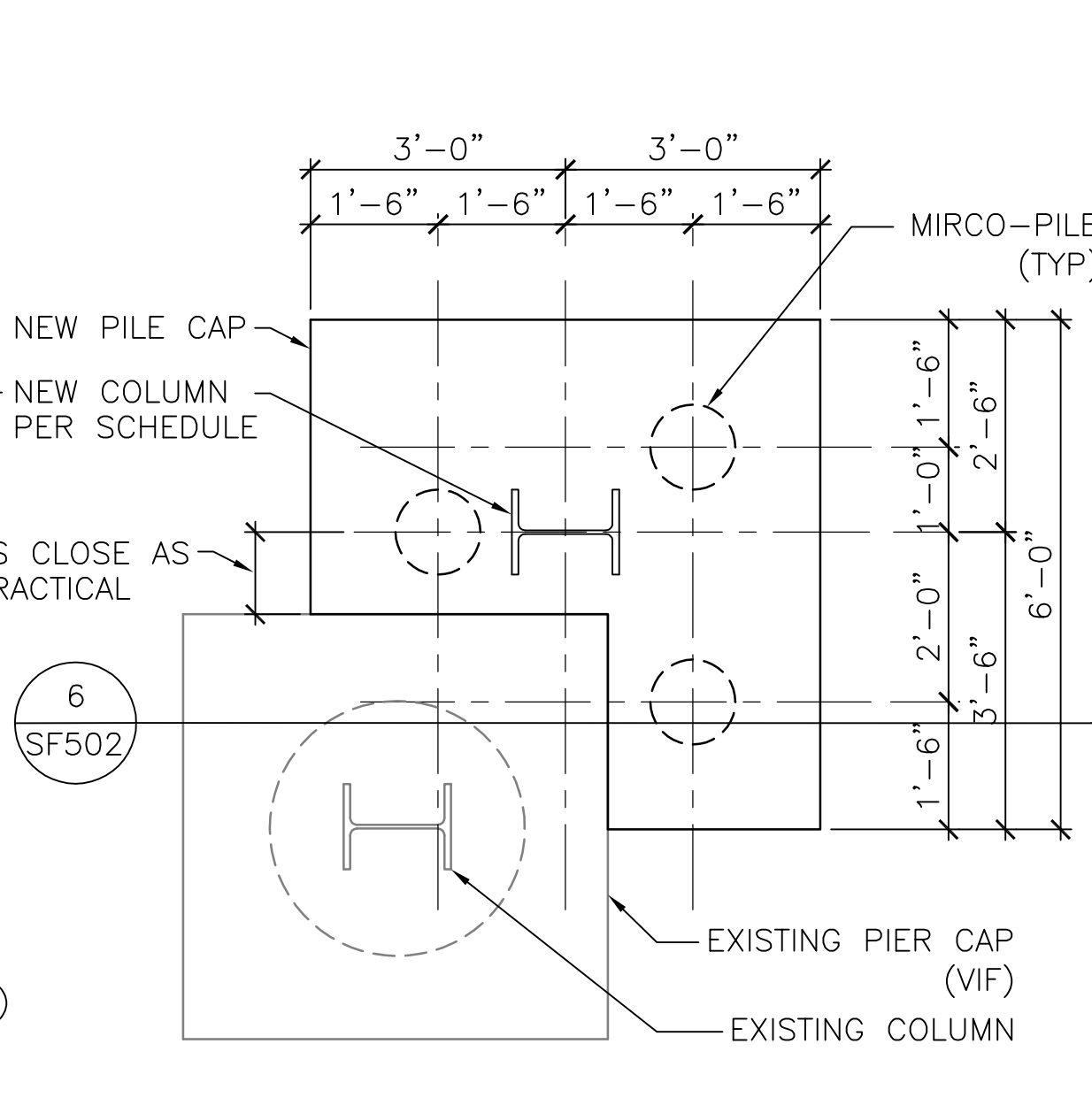
- NOTES:
1. EDGES OF GROUT SHALL EXTEND A DISTANCE "H" PAST EDGES OF BASE PLATE.
 2. BASE PLATE BOLT HOLES SHALL BE "OVERSIZE".
 3. MINIMUM BASE PLATE THICKNESS SHALL BE 1/2".
 4. RE-TIGHTEN TOP NUT SNUG TIGHT AFTER GROUTING BASE PLATE AND WELDING PLATE WASHER.

COLUMN NO.	A1		C1						D1		D2	D3				E1	E2	F1	F2		F3		F4
	5A	6B	5A	6	6B	7	8	8B	4A	4B	4B	4A	6A	8A	8B	4A	4B	5B	3A	4A	4A	4B	3A
FLOOR																							
TOP OF COLUMN DETAIL	3/ SF501 SIM.	3/ SF501 SIM.	3/ SF501	3/ SF501	9/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501	3/ SF501 SIM.	9/ SF501	3/ SF501	3/ SF501	3/ SF501 SIM.
MAIN ROOF: T.O. CONCRETE EL = 16'-0" (REF.) EL = 414'-0" (ABSOLUTE)			HSS 5x5x5/16	W 14x48	HSS 4x4x5/16	W 14x43	W 14x61	W 14x68	W 14x43	W 14x43	W 14x82	W 14x43	W 14x90	W 14x99	W 14x88	HSS 5x5x5/16	W 14x53	W 14x43		HSS 4x4x5/16	W 14x43	W 14x43	
CANOPY: T.O. ROOF DECK EL = 13'-5 1/2" (REF.) EL = 411'-4" (ABSOLUTE)	HSS 8x8x5/16	HSS 8x8x5/16																	HSS 8x8x5/16				HSS 8x8x5/16
GROUND FLOOR: T.O. CONCRETE EL = 0'-0" (REF.) EL = 398'-0" (ABSOLUTE)																							
BASEMENT: T.O. CONCRETE EL = -20'-0" (REF.) EL = 378'-0" (ABSOLUTE)																							
PLATE	3/4 x 14 SQ.	3/4 x 14 SQ.	3/4 x 11 SQ.	1x12 x15	--	1x12 x15	1-1/2x 12x15	1x12 x15	1x12 x15	1x12 x15	1-1/2x 15x15	1x12 x15	1-1/2x 15x15	1-1/2x 15x15	1x12 x15	3/4 x 11 SQ.	1x12 x15	1x12 x15	3/4 x 14 SQ.	--	1x12 x15	1x12 x15	3/4 x 14 SQ.
BASE PLATE DETAIL	4/ SF501	4/ SF501	4/ SF501	5/ SF501	--	5/ SF501	5/ SF501	5/ SF501	5/ SF501	5/ SF501	5/ SF501	5/ SF501	5/ SF501	5/ SF501	5/ SF501	4/ SF501	5/ SF501	5/ SF501	5/ SF501	4/ SF501	--	5/ SF501	5/ SF501
PILE CAP	SIZE	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	--	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	6'-0"x 6'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	7/ SF501 DEEP	6/ SF501 DEEP	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	8/ SF501 DEEP	5'-0"x 5'-0"x 2'-6"	--	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"	5'-0"x 5'-0"x 2'-6"
		(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	--	(5) #5 EA. WAY	(5) #5 EA. WAY	(9) #6 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(9) #6 EA. WAY	(9) #6 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	--	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY
PIER	REINFORCING	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	--	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	--	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"
		(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	--	(5) #5 EA. WAY	(5) #5 EA. WAY	(9) #6 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(9) #6 EA. WAY	(9) #6 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	--	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY
PIER	PIER	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	--	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	--	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"	2'-0"x 2'-0"x 2'-6"
		(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	--	(5) #5 EA. WAY	(5) #5 EA. WAY	(9) #6 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(9) #6 EA. WAY	(9) #6 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY	--	(5) #5 EA. WAY	(5) #5 EA. WAY	(5) #5 EA. WAY
SERVICE LEVEL REACTION		109K	109K	109K	109K	--	219K	219K	241K	109K	109K	219K	109K	219K	241K	109K	109K	109K	109K	--	109K	109K	109K

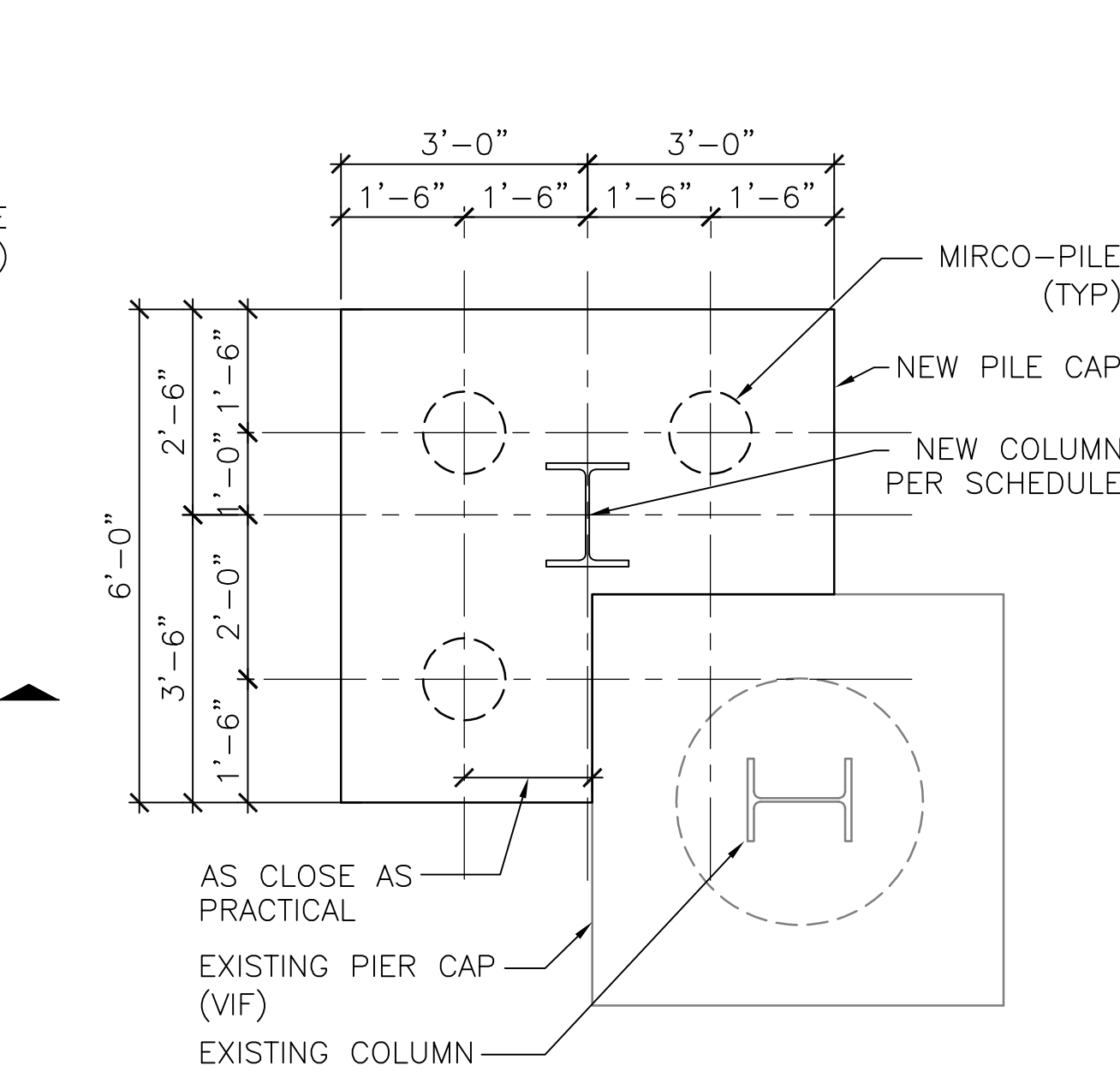
1 COLUMN SCHEDULE
NTS



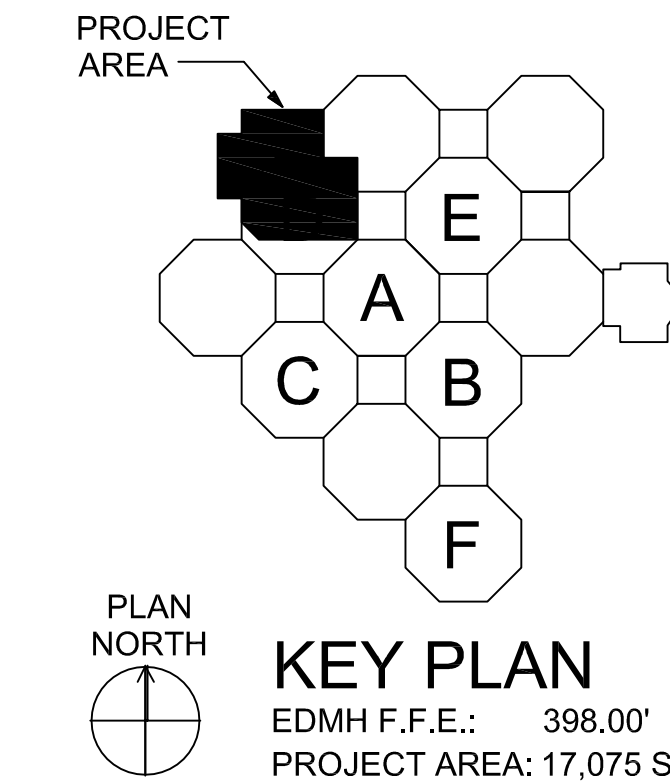
8 ENLARGED FOOTING PLAN
1/2" = 1'-0"



7 ENLARGED FOOTING PLAN
1/2" = 1'-0"



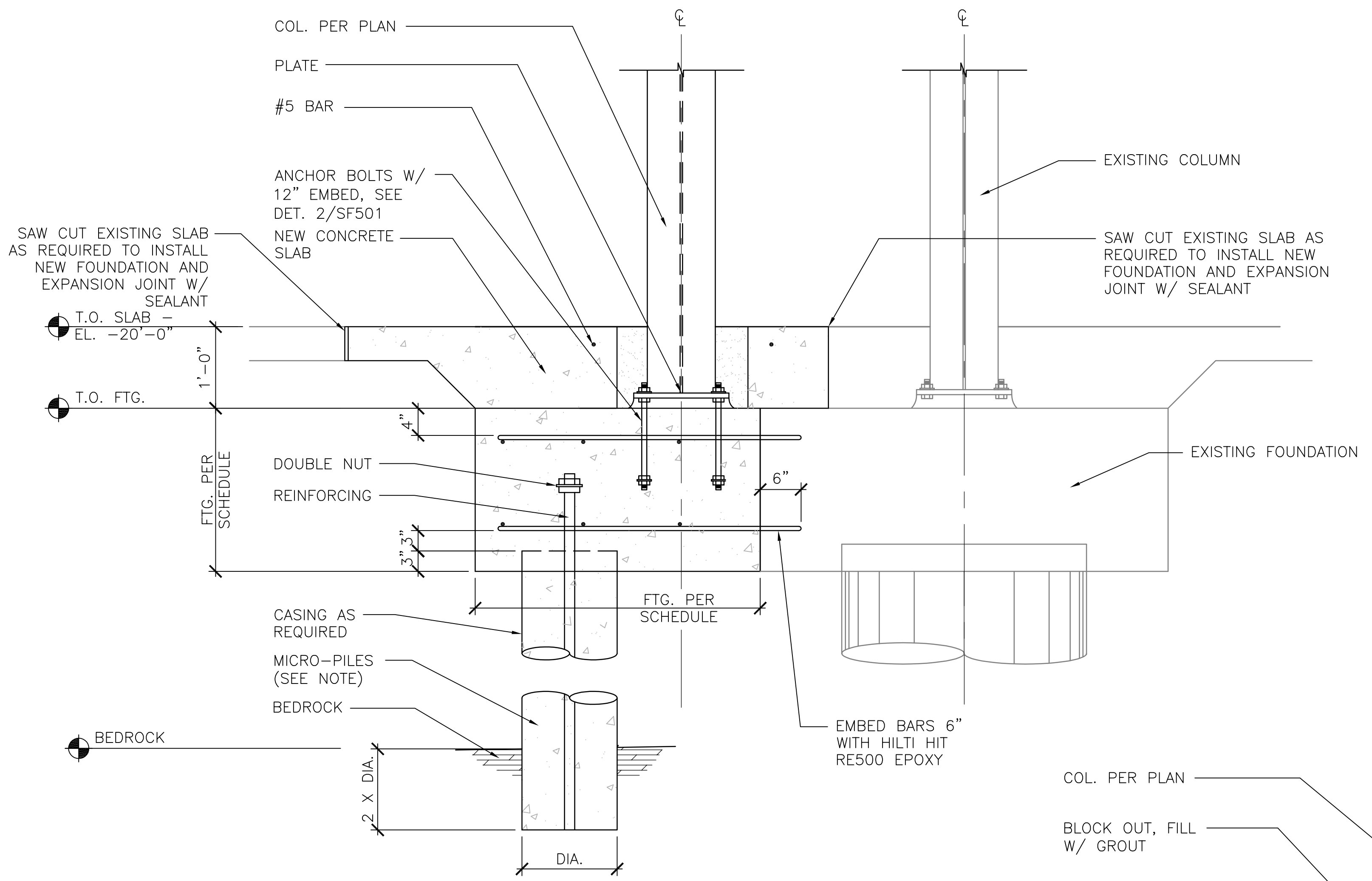
6 ENLARGED FOOTING PLAN
1/2" = 1'-0"



CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:	Date:	ARCHITECT/ENGINEERS:	Drawing Title: DETAILS	Project Title: EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS	Project Number: CSI-112
		BES DESIGN/BUILD, LLC 766 Middle St. Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	Approved: Project Director	Location: LITTLE ROCK, ARKANSAS	Building Number: 1
			Date: 2015.03.06	Drawn: Michaels	Drawing Number: SF501
				Checked: Richardson	Dwg. 24 of 127

A
three inches = one foot
1
one and one half inches = one foot
2
one inch = one foot
3
three quarters inch = one foot
4
one half inch = one foot
5
three eighths inch = one foot
6
one quarter inch = one foot
7
one eighth inch = one foot
8
one sixteenth inch = one foot
9
one thirty second inch = one foot
10
one sixty fourth inch = one foot
11
one one hundred twenty eighth inch = one foot
12



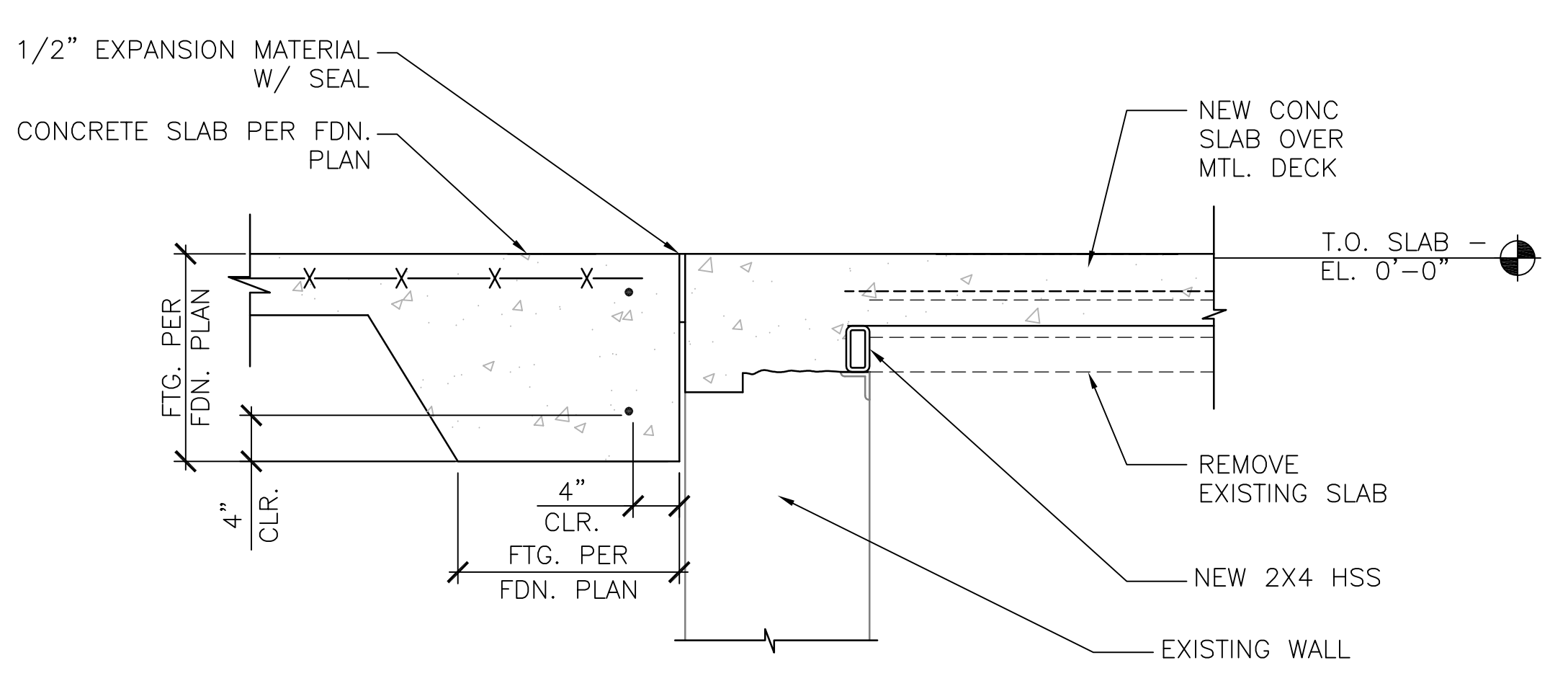
6 COLUMN DETAIL AT GROUND FLOOR
1" = 1'-0"

MIRCO-PILE NOTES

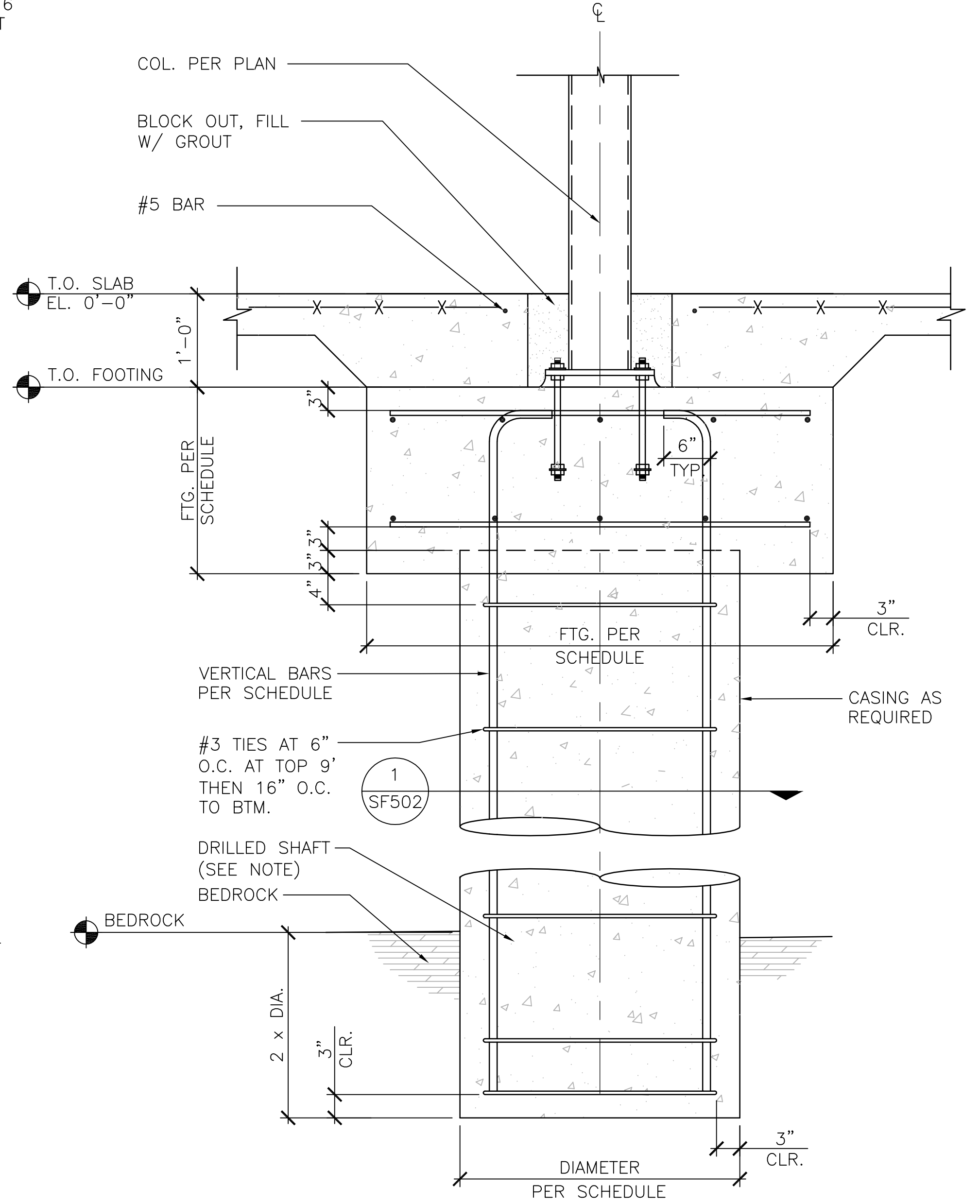
1. AXIAL WORKING LOAD = 80 KIPS LATERAL = 4 KIPS
2. TARGET DEPTH = 4-6' INTO ROCK LAYER
3. PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR FINAL DESIGN SEALED BY A LICENSED P.E.
4. REFER TO THE GEOTECHNICAL REPORT BY GRUBBS HOSKYN, BARTON, AND WYATT, INC. INSTALLATION SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER. TESTING SHALL BE AS THE SUPPLEMENTAL REPORT DATED JANUARY 2015 AND THE SPECIFICATIONS. AT LEAST 10 PERCENT OR 2 PRODUCTION MICRO-PILES SHALL BE PROOF TESTED TO 1.3 TIMES THE DESIGN LOAD.
5. ALL CONSTRUCTION TO BE GALVANIZED

DRILLED SHAFT NOTES

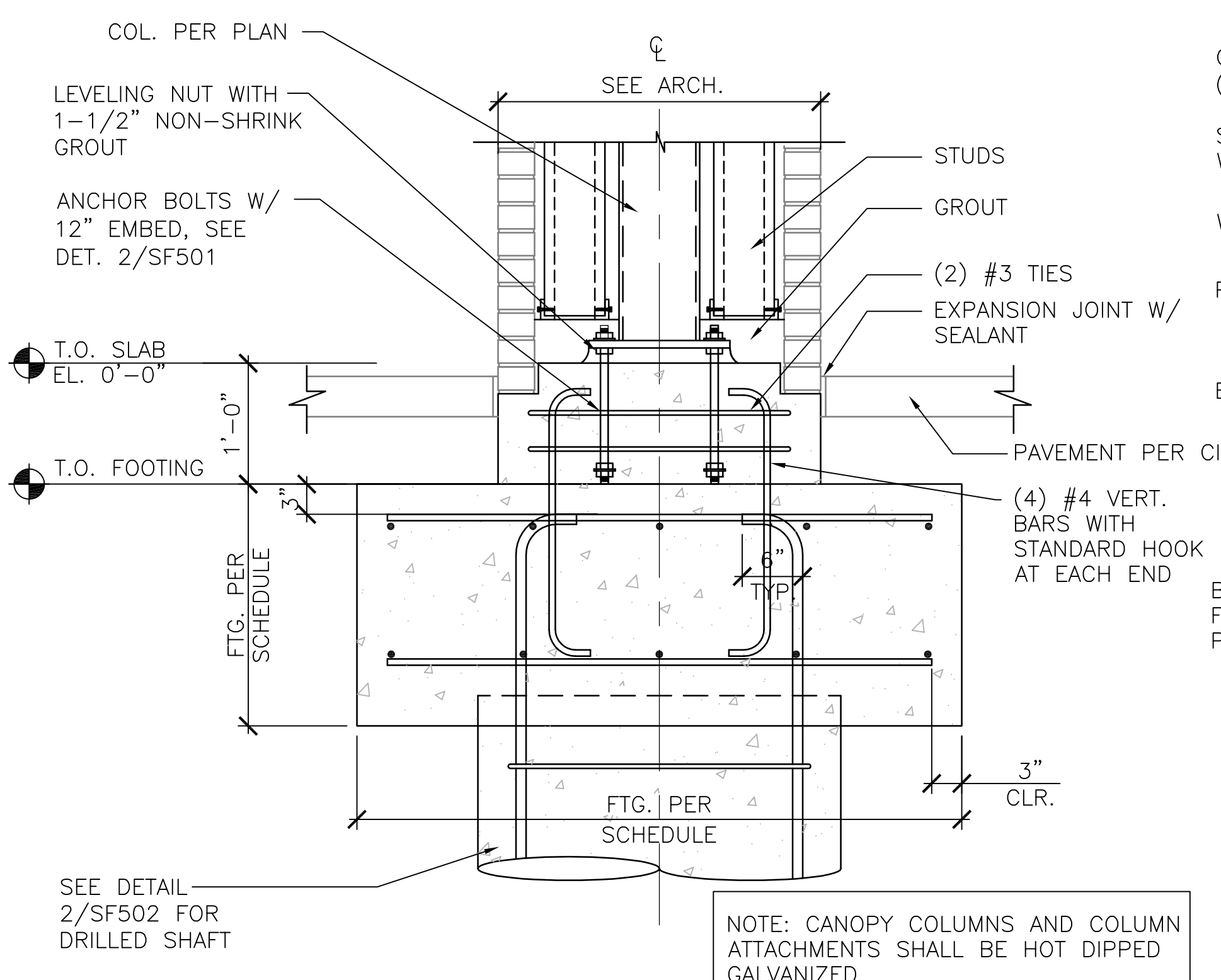
1. AXIAL WORKING LOAD = 219 KIPS FOR 3' DIA., 89 KIPS FOR 2' DIA. LATERAL = 10 KIPS
2. TARGET DEPTH = 4-6' INTO ROCK LAYER
3. PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR FINAL DESIGN SEALED BY A LICENSED P.E.
4. REFER TO THE GEOTECHNICAL REPORT BY GRUBBS HOSKYN, BARTON, AND WYATT, INC. SHAFT INSTALLATION SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. PROVIDE LOAD TESTING AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND THE SPECIFICATION.
5. ALL CONSTRUCTION TO BE GALVANIZED



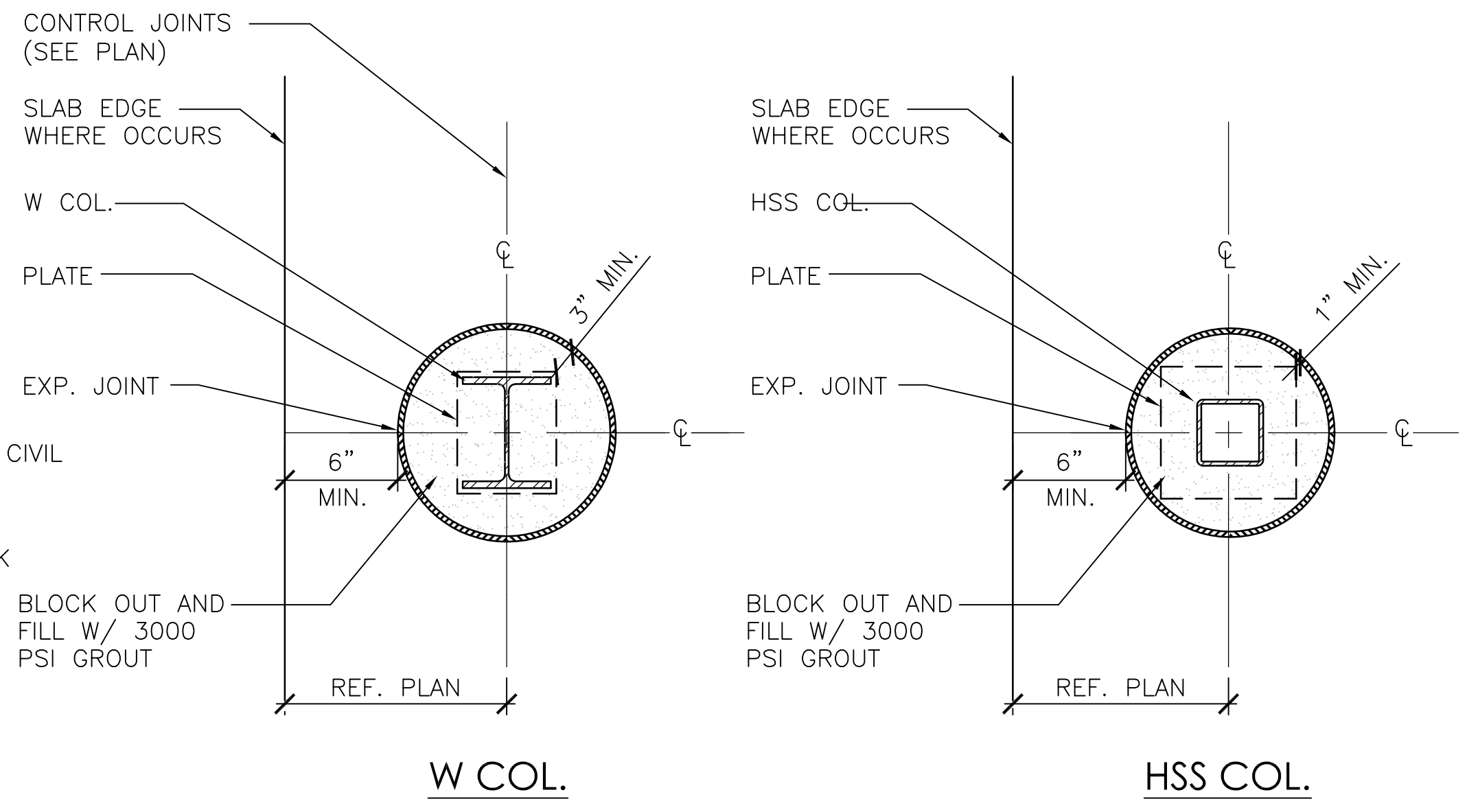
5 INTERIOR SLAB DETAIL
1" = 1'-0"



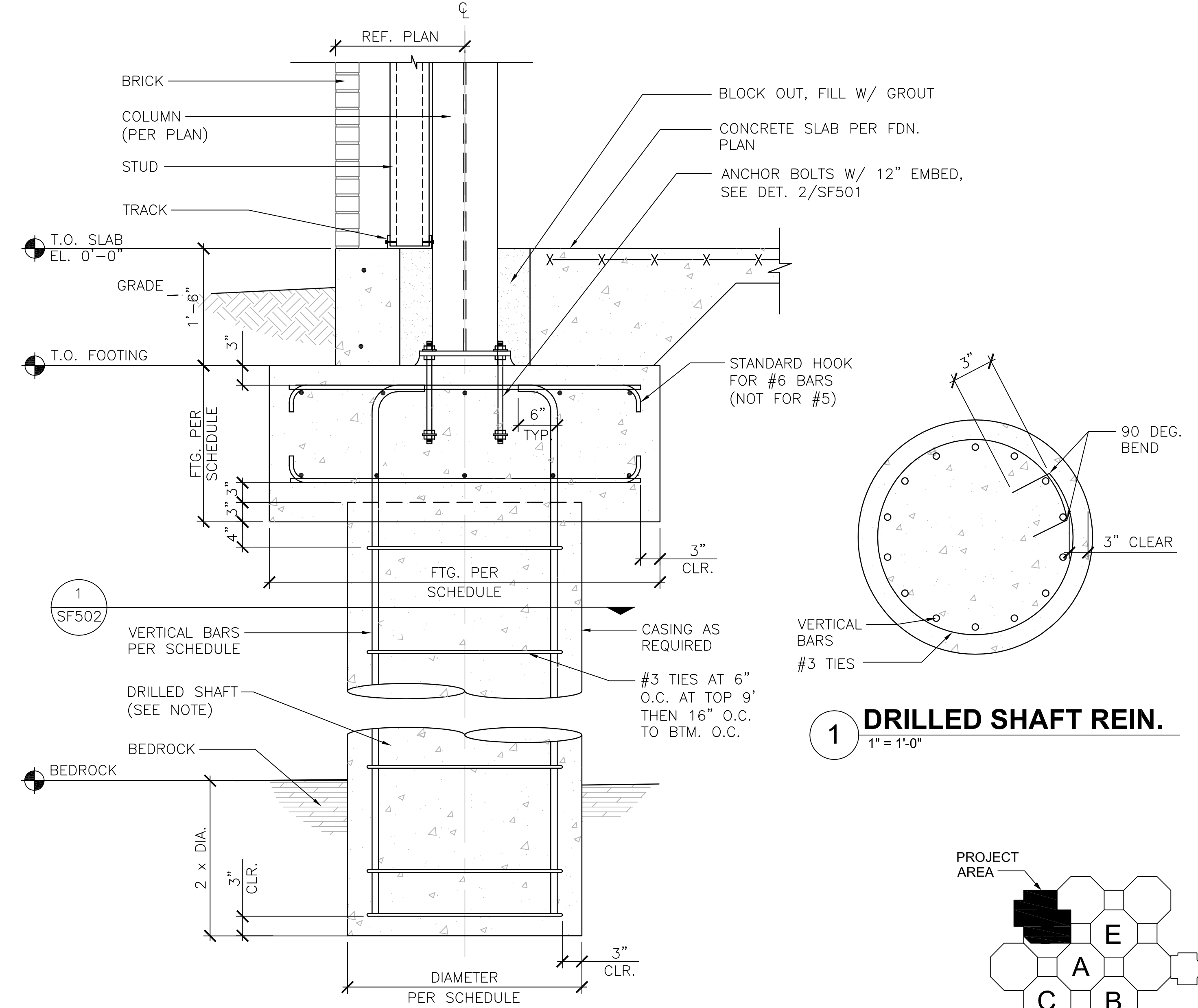
4 INTERIOR COLUMN FOOTING (NEW AREA)
1" = 1'-0"



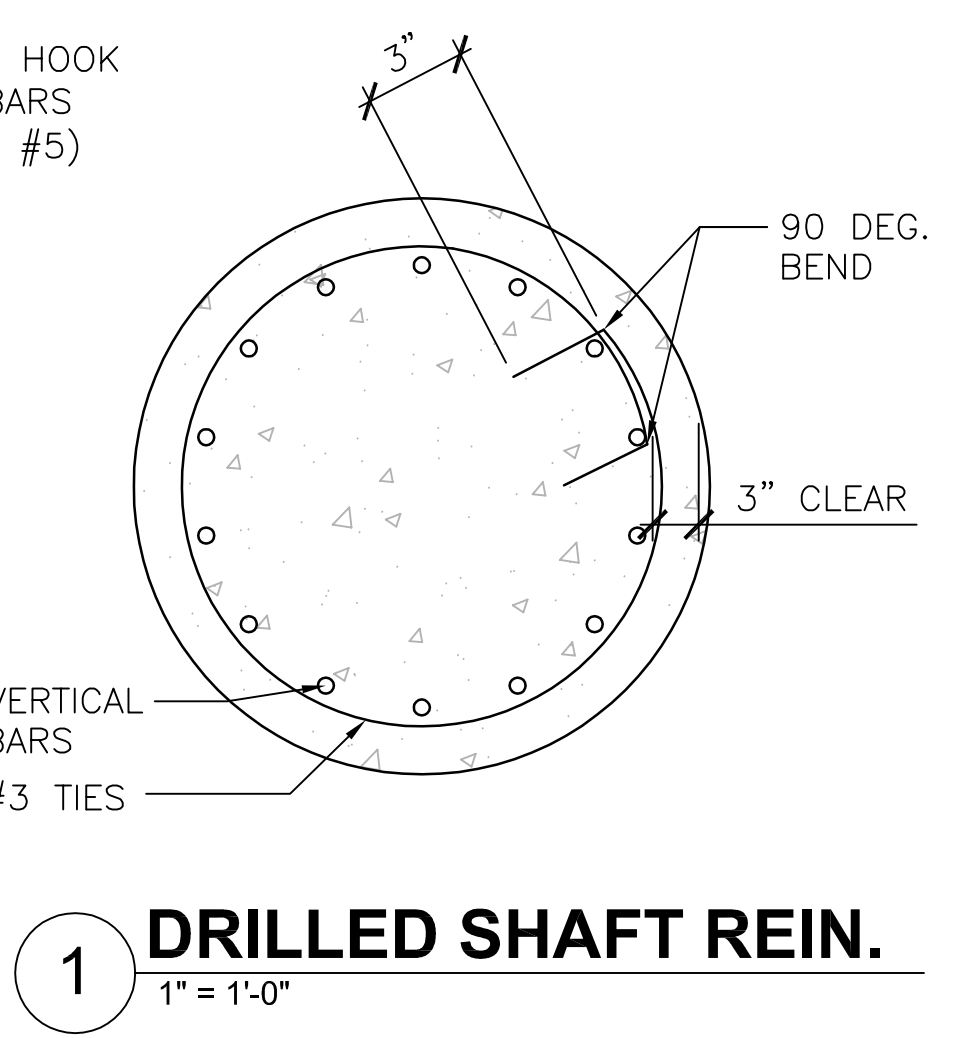
7 CANOPY COLUMN DETAIL
1" = 1'-0"



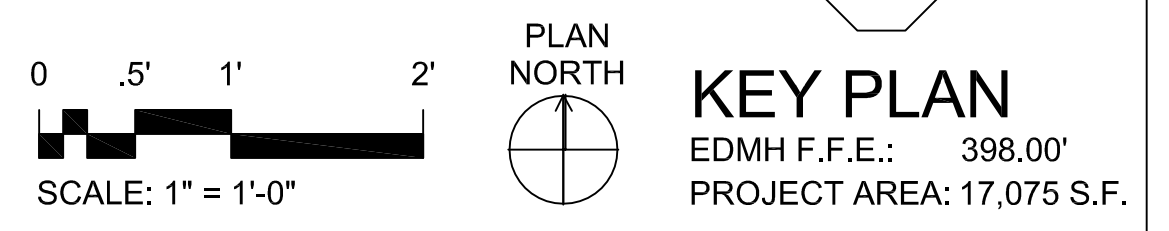
3 SLAB / COLUMN JOINT DETAIL
NTS



2 COLUMN FOOTING AT EDGE
1" = 1'-0"



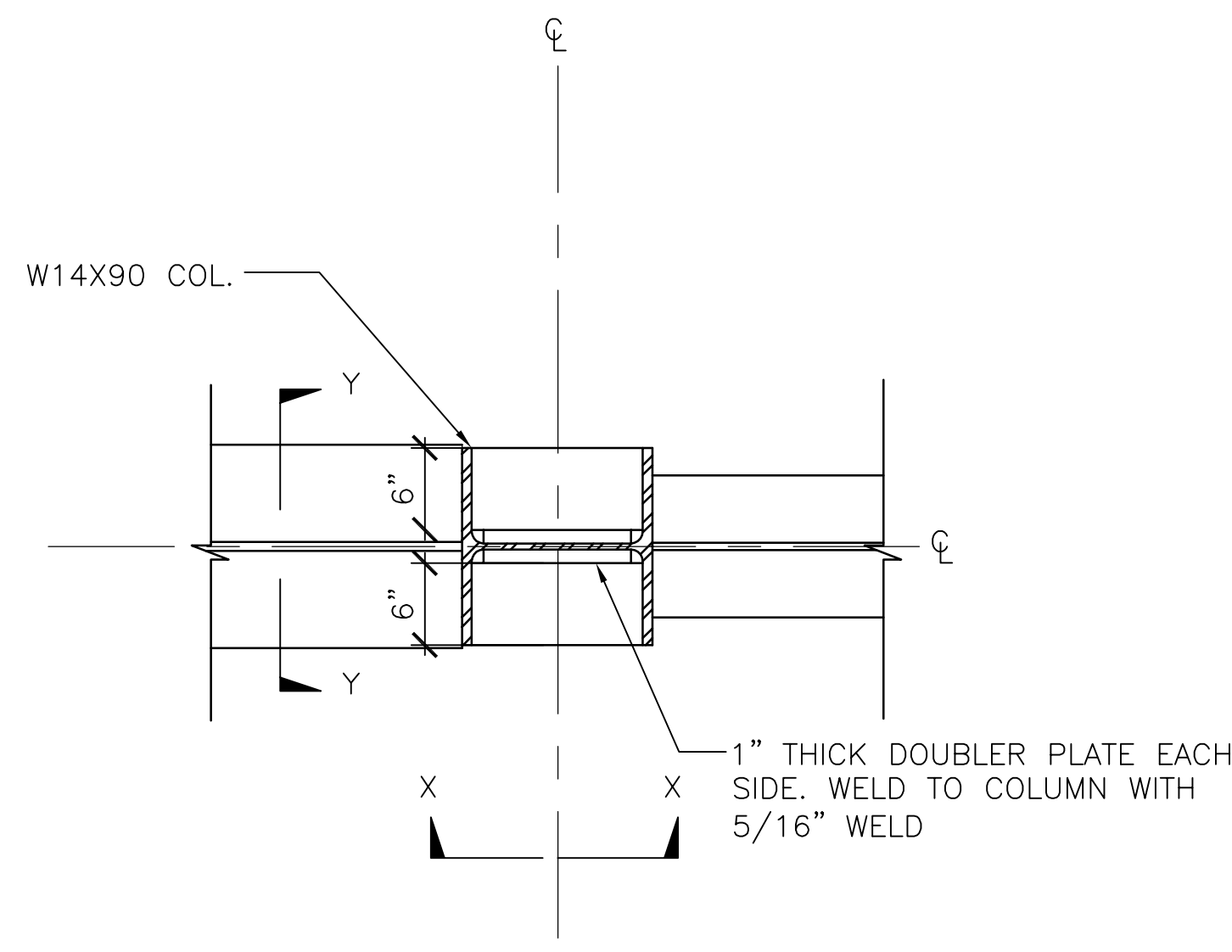
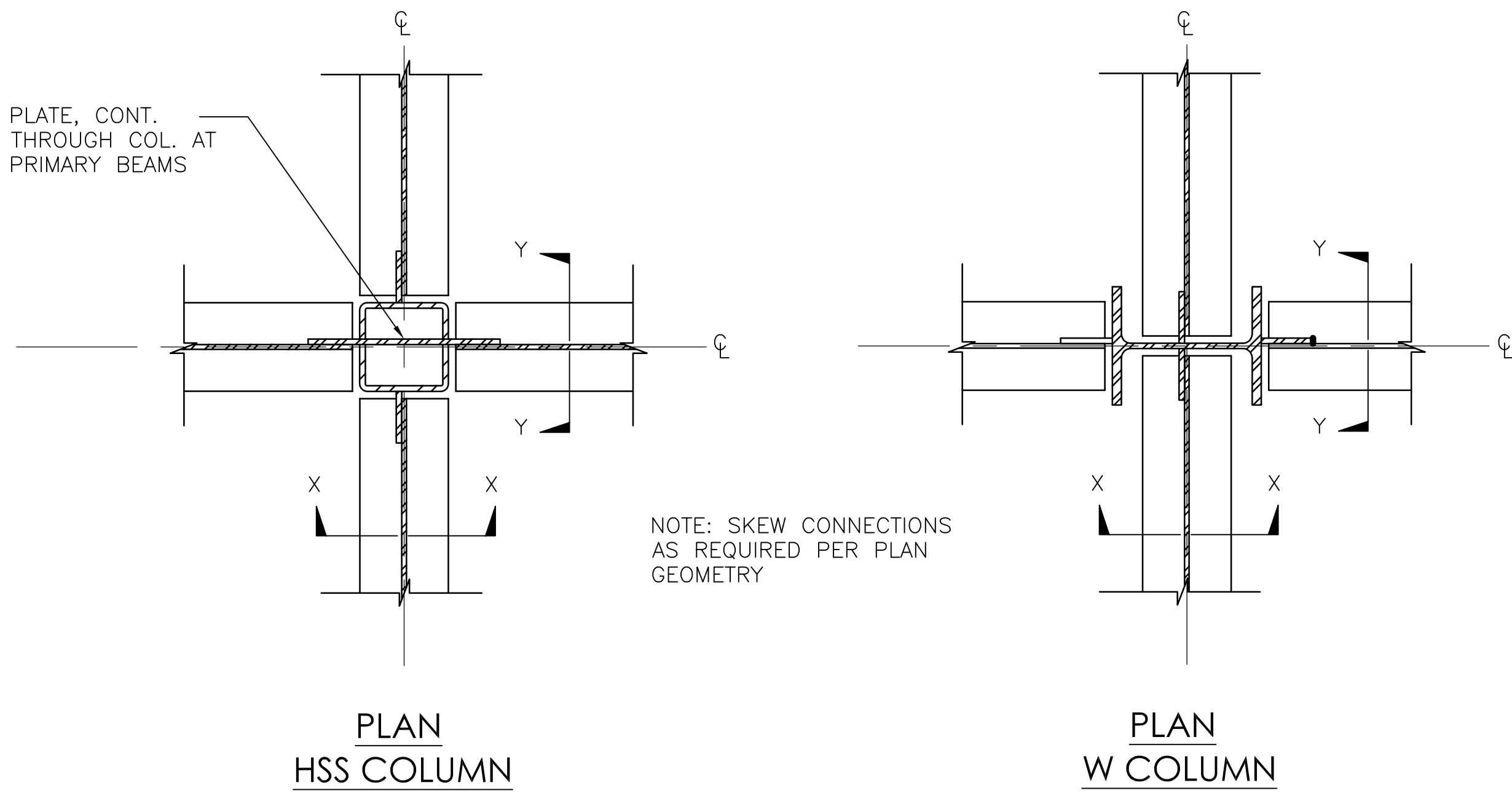
1 DRILLED SHAFT REIN.
1" = 1'-0"



CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:		Date	ARCHITECT/ENGINEERS:		Drawing Title DETAILS	Project Title EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		Project Number CSI-112		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM	
			BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Approved: Project Director	Location LITTLE ROCK, ARKANSAS		Building Number 1		Drawing Number SF502	
						Date 2015.03.06		Drawn Michaels		Checked Richardson	
								Dwg. 25 of 127		Department of Veterans Affairs	

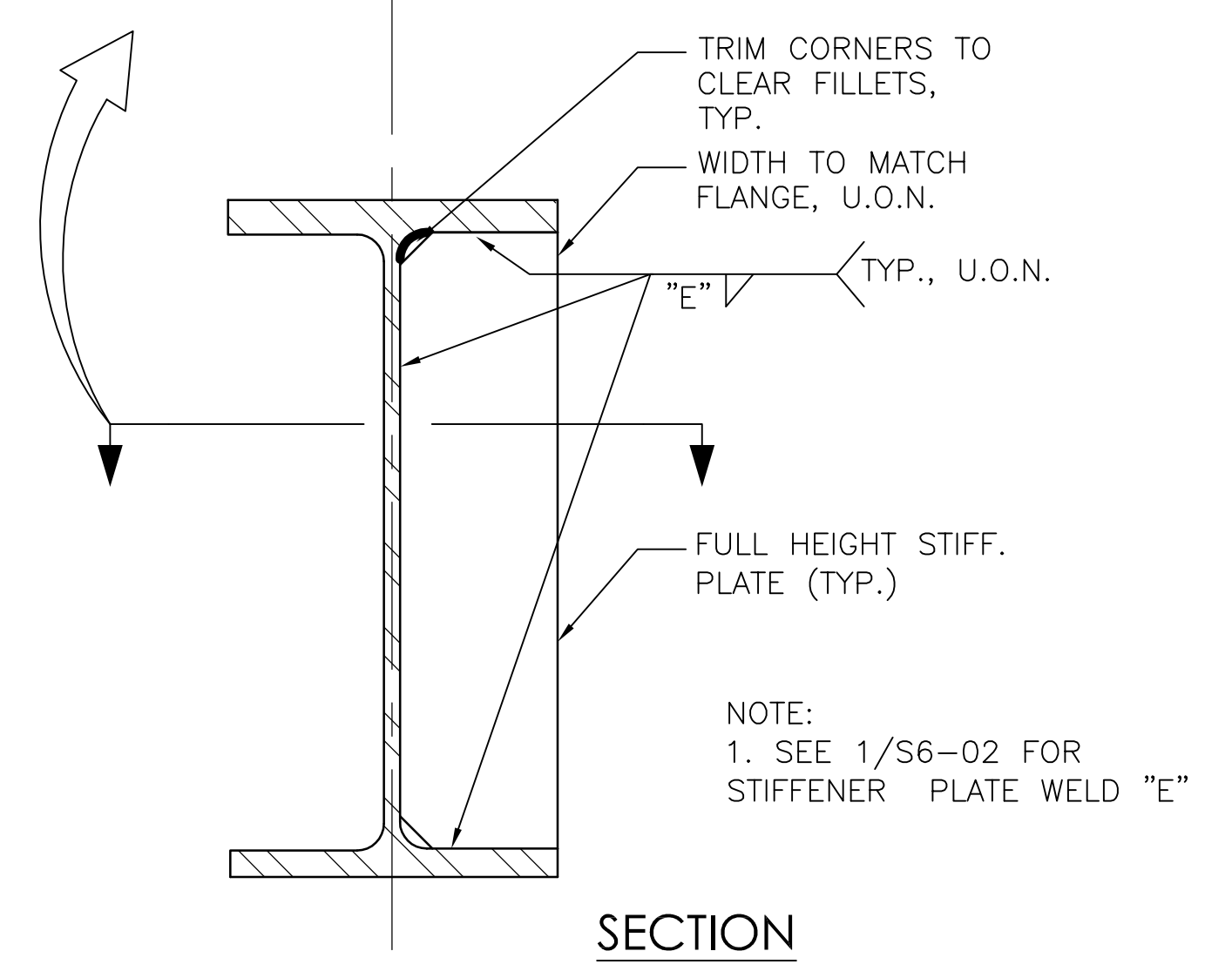
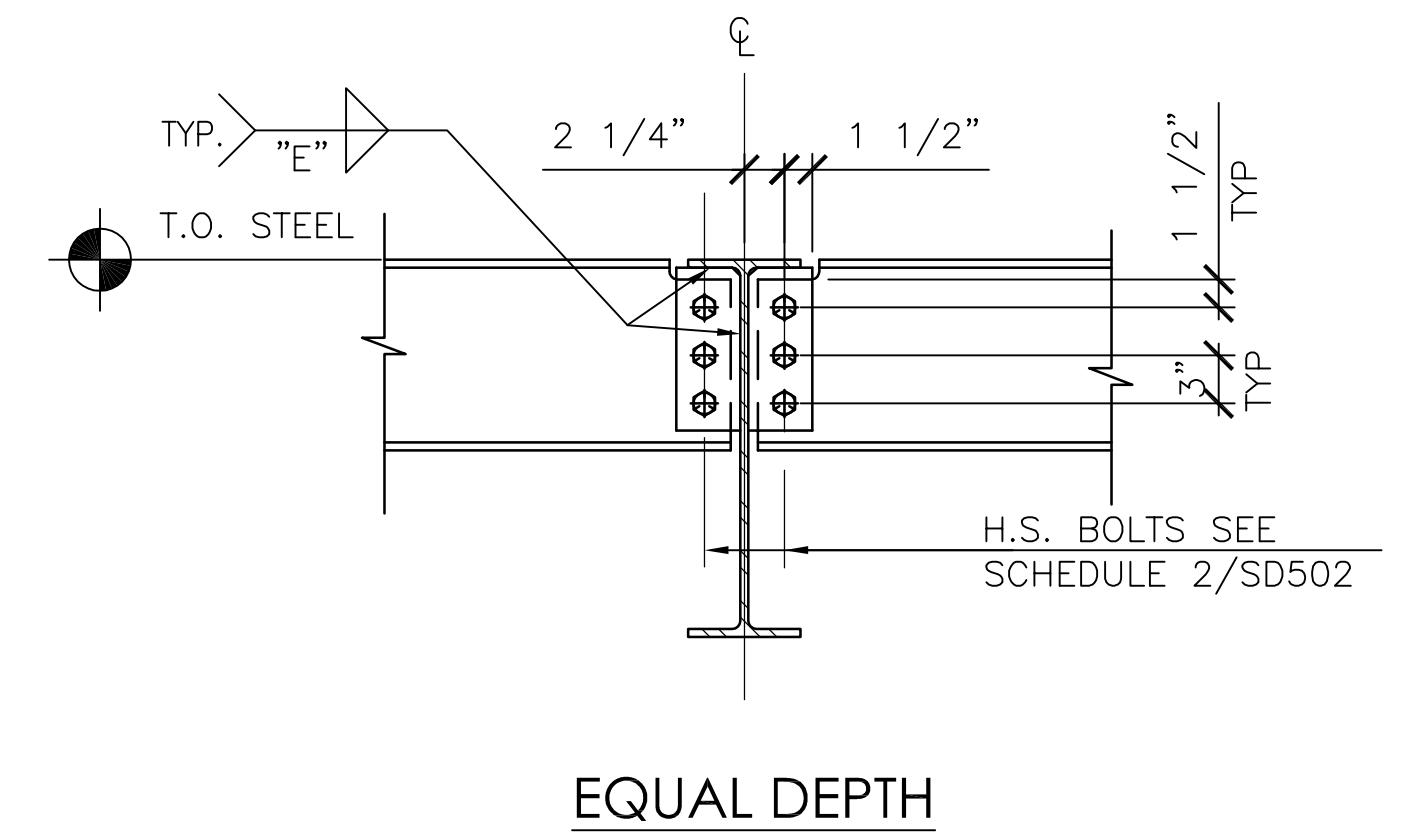
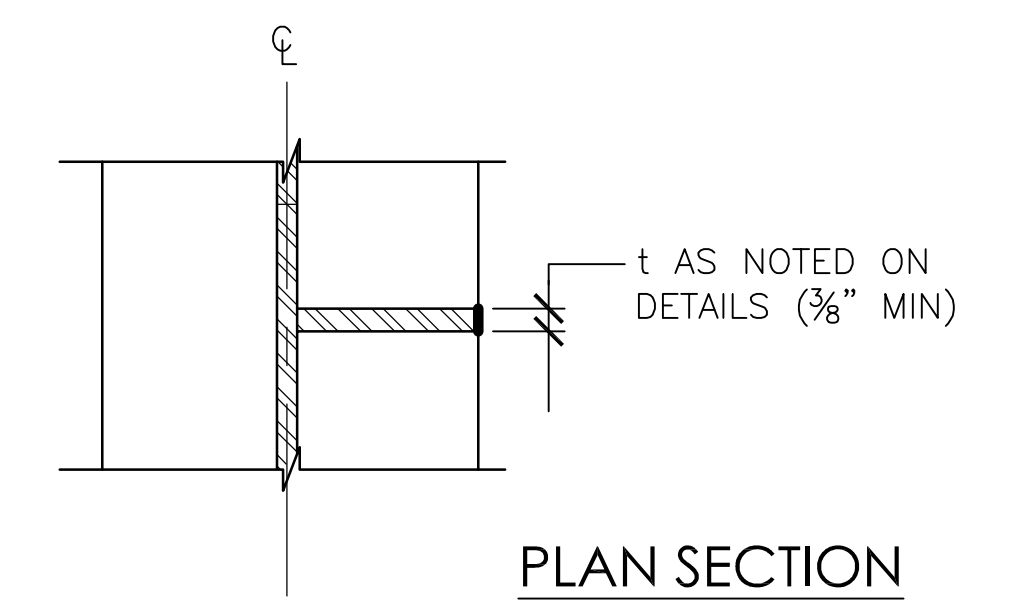
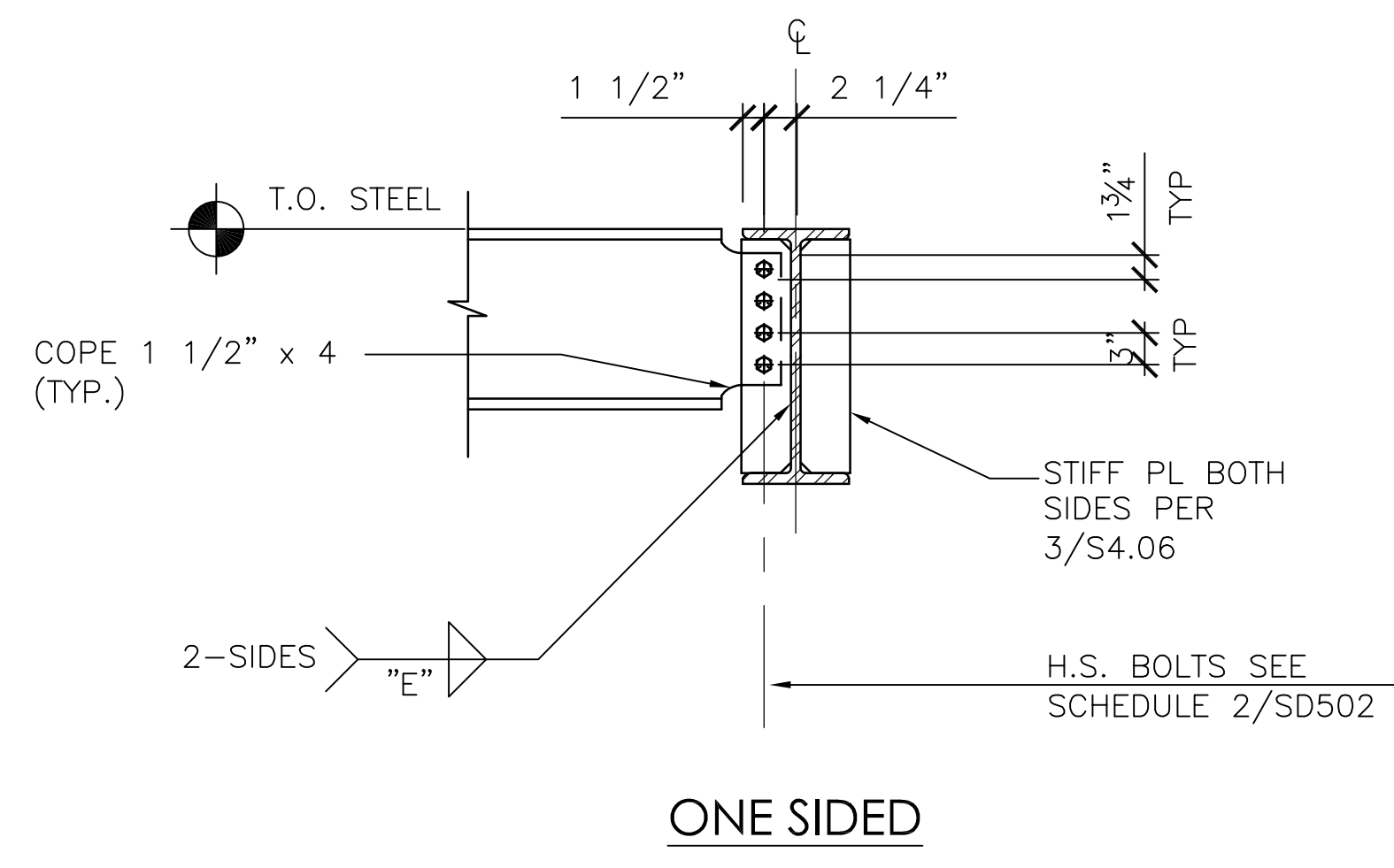
A three inches = one foot
B one and one half inches = one foot
C one inch = one foot
D three quarters inch = one foot
E one half inch = one foot
F one quarter inch = one foot
G one eighth inch = one foot
H one eighth inch = one foot
I one eighth inch = one foot
J one eighth inch = one foot
K one eighth inch = one foot
L one eighth inch = one foot
M one eighth inch = one foot
N one eighth inch = one foot
O one eighth inch = one foot
P one eighth inch = one foot
Q one eighth inch = one foot
R one eighth inch = one foot
S one eighth inch = one foot
T one eighth inch = one foot
U one eighth inch = one foot
V one eighth inch = one foot
W one eighth inch = one foot
X one eighth inch = one foot
Y one eighth inch = one foot
Z one eighth inch = one foot



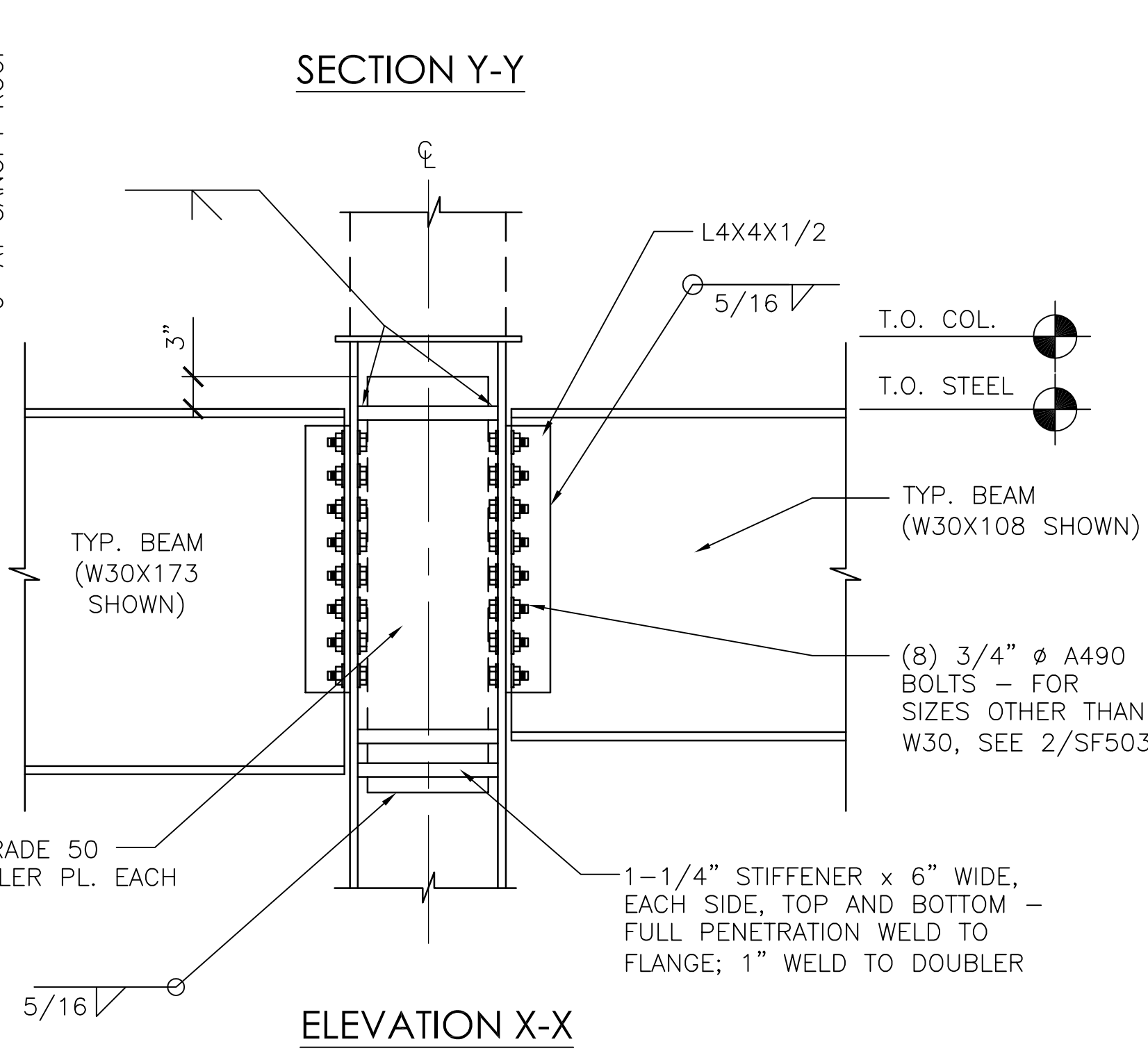
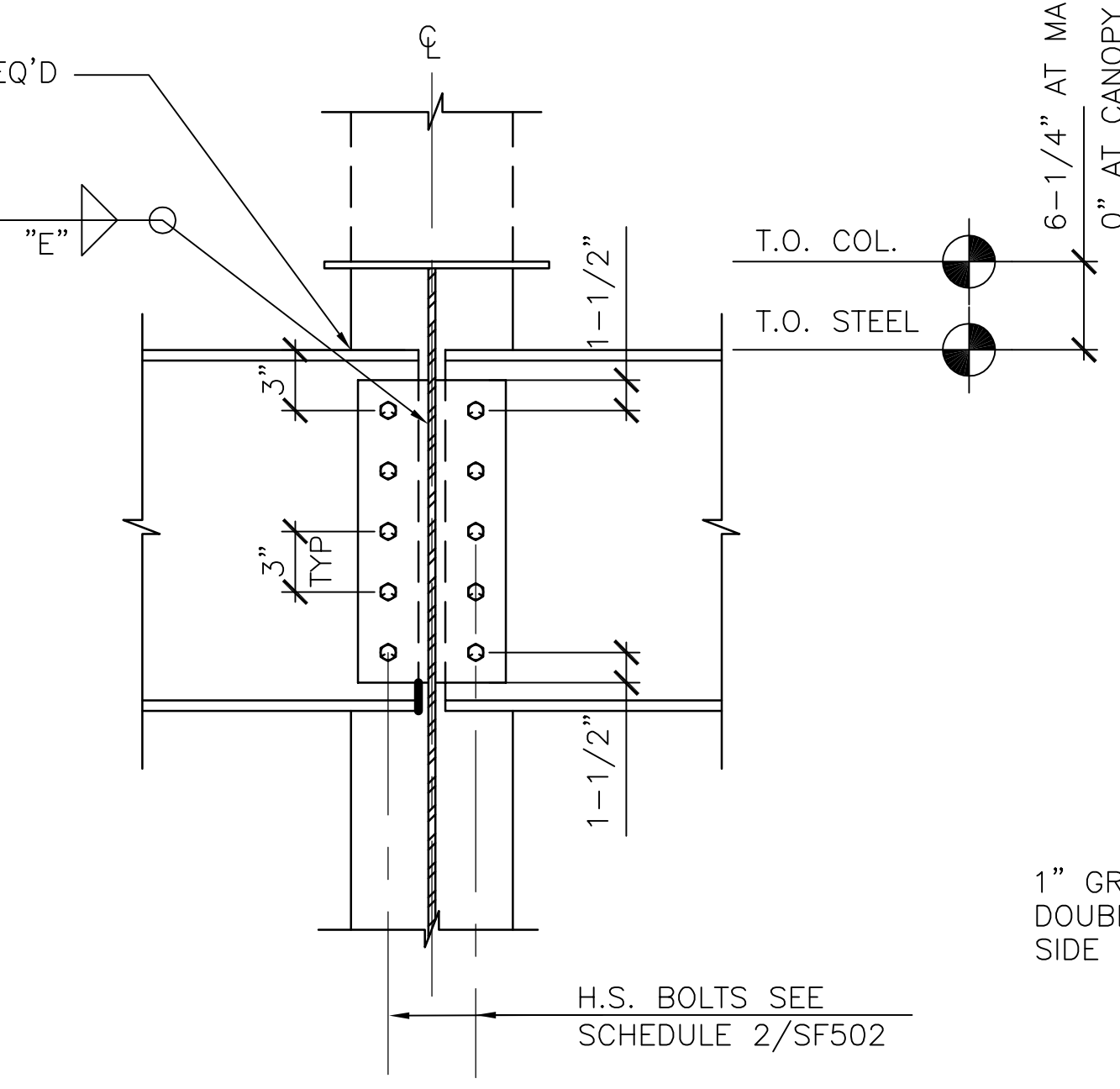
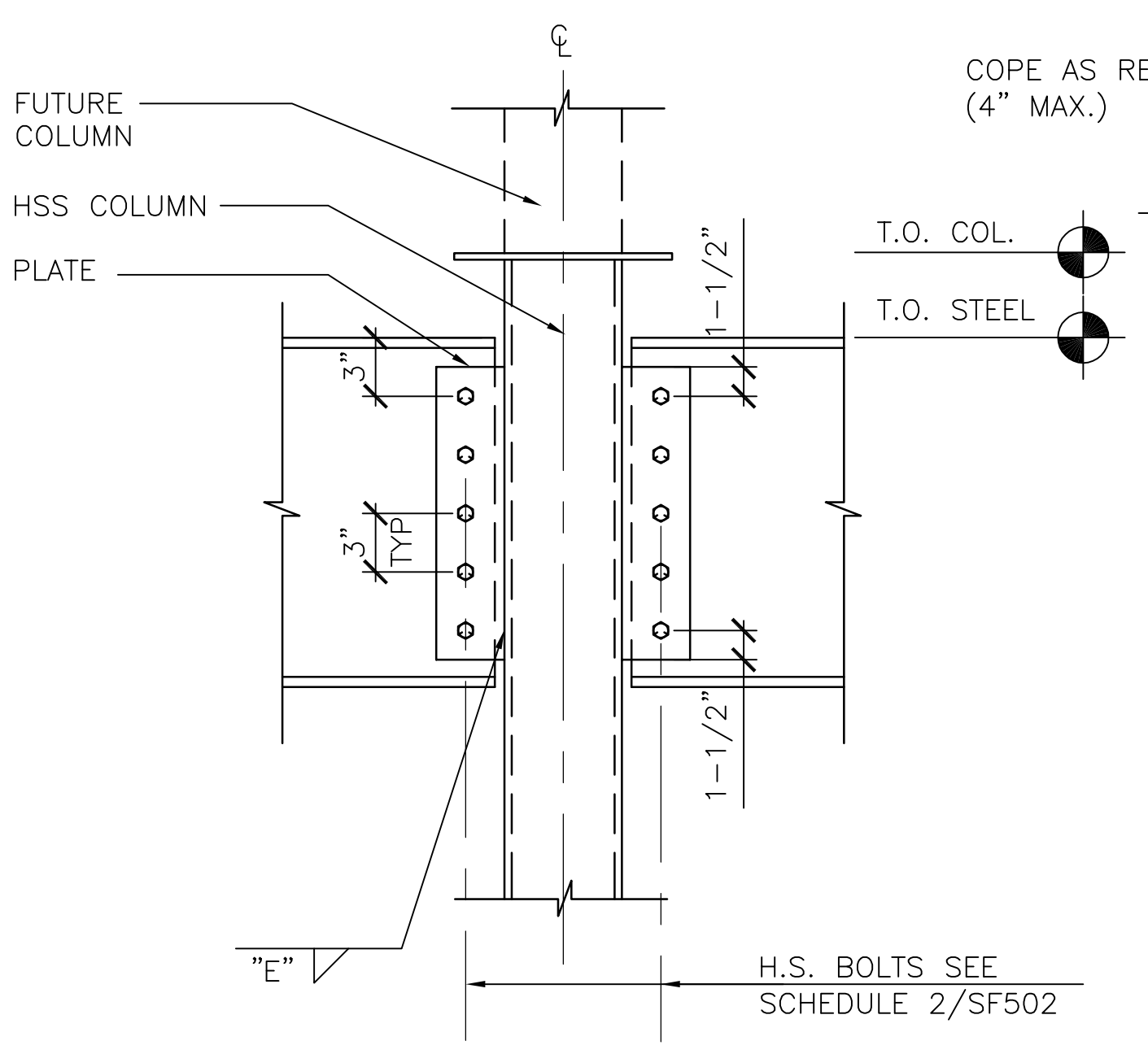
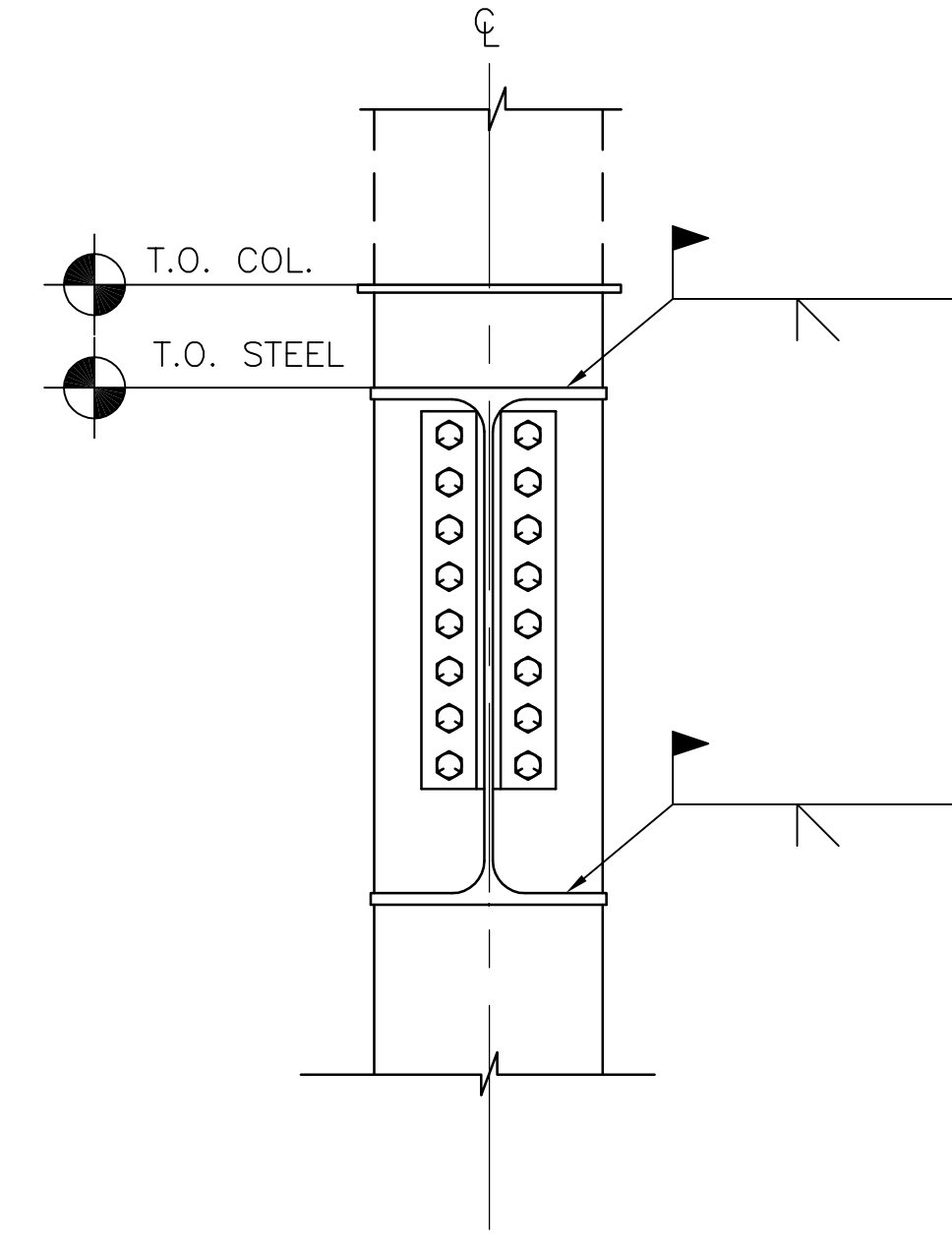
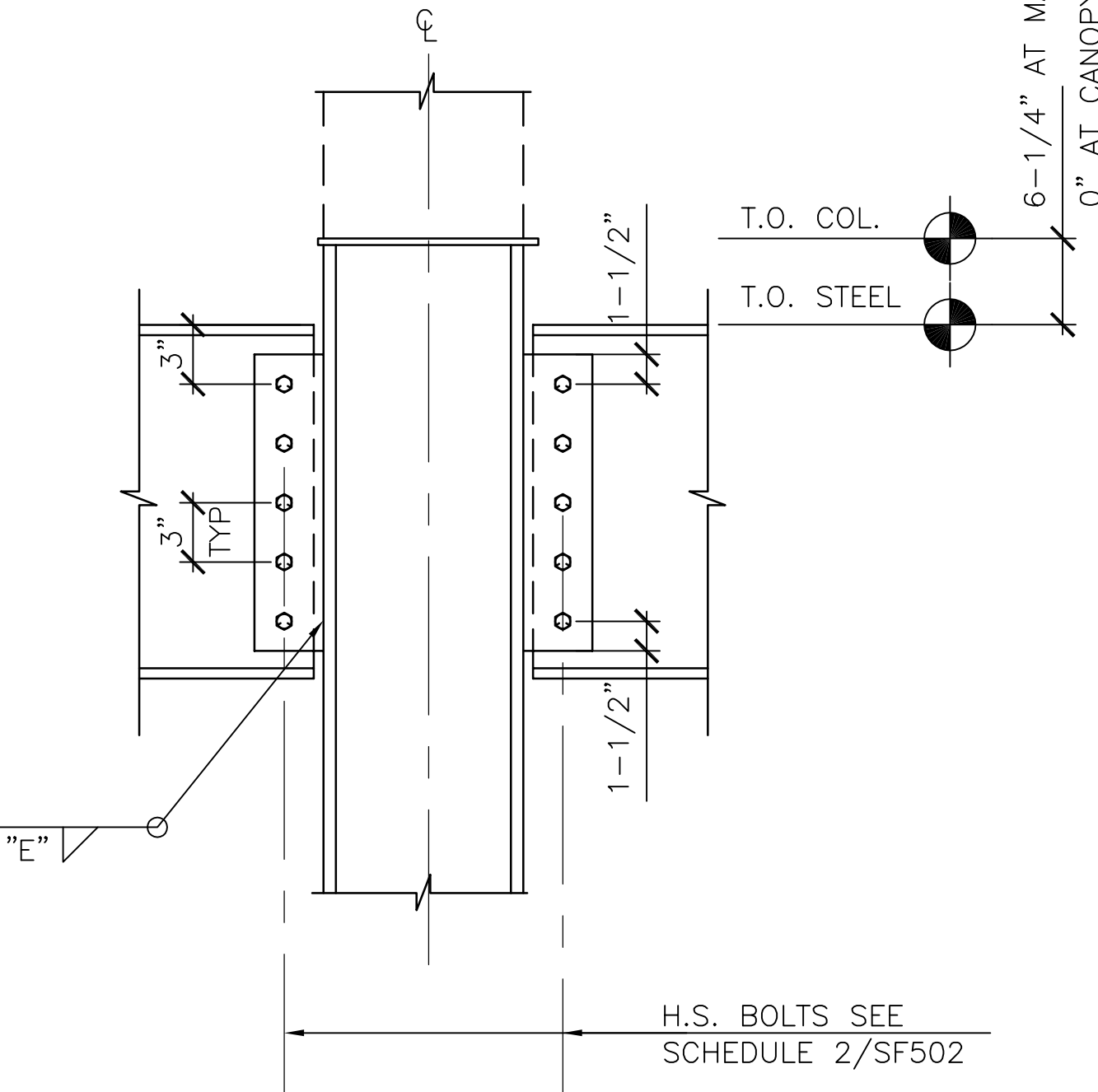
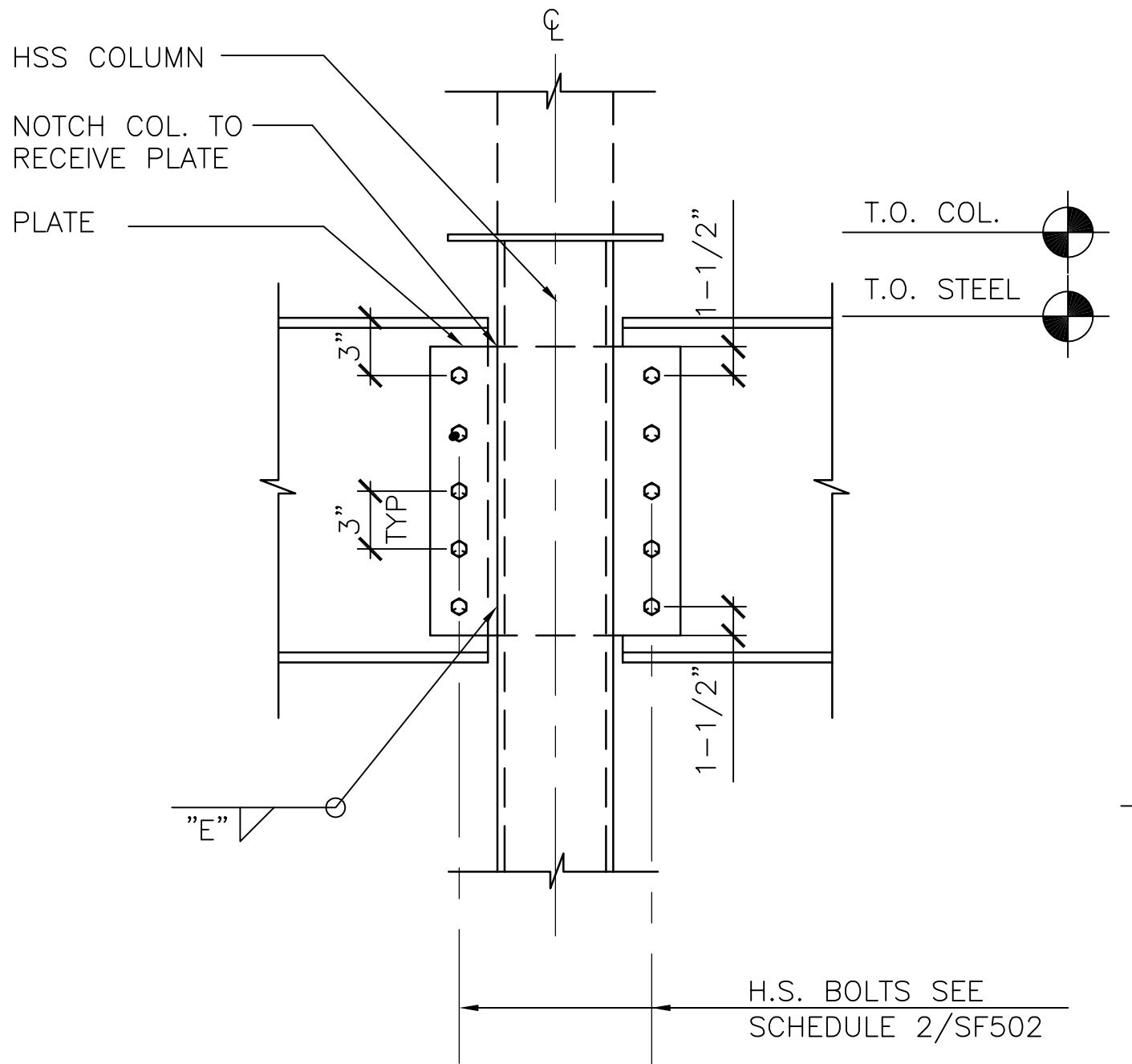
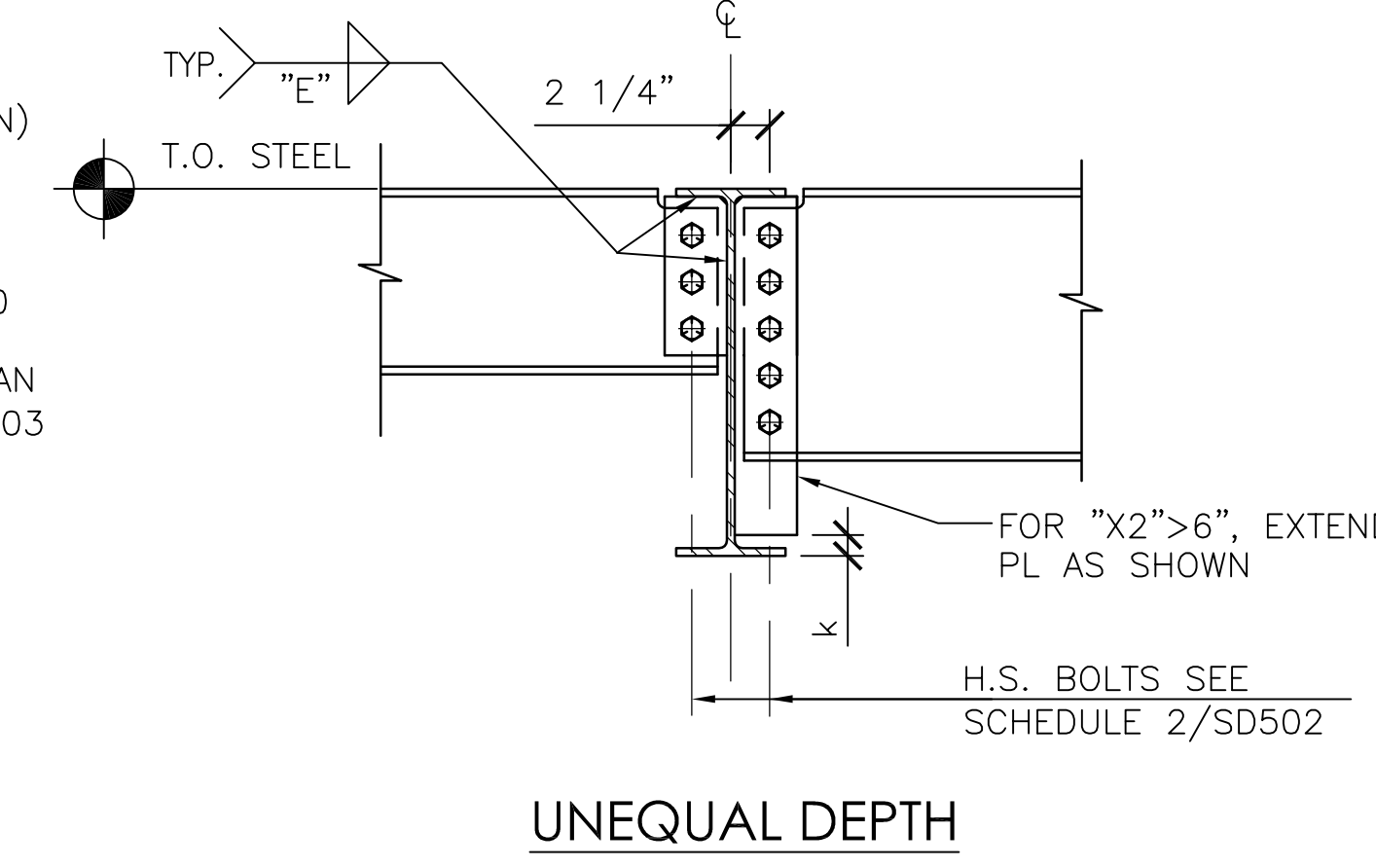
SIZE	CONNECTION		WELD "E"	REMARKS
	PLATE "t"	BOLTS		
W12 OR C12	3/8"	3-3/4"Ø	5/16"	
W14	3/8"	3-3/4"Ø	5/16"	
W18	3/8"	5-3/4"Ø	5/16"	
W21	1/2"	6-3/4"Ø	5/16"	A490 BOLTS
W24	1/2"	7-3/4"Ø	5/16"	A490 BOLTS
W30	1/2"	8-3/4"Ø	5/16"	A490 BOLTS

- NOTES:
- USE A325-N BOLTS UON.
 - USE PLATE - $F_y=36$ ksi $F_u=58$ ksi
 - USE STANDARD HOLES HORIZONTAL HOLES AT ALL
BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS.

2 BEAM CONNECTION SCHEDULE
NTS



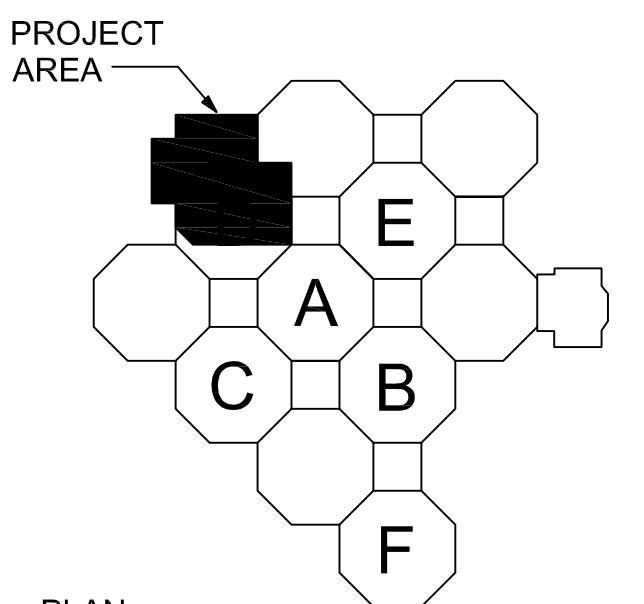
3 BEAM WEB STIFFENER DETAIL
NTS



5 BEAM / COLUMN CONNECTIONS
NTS

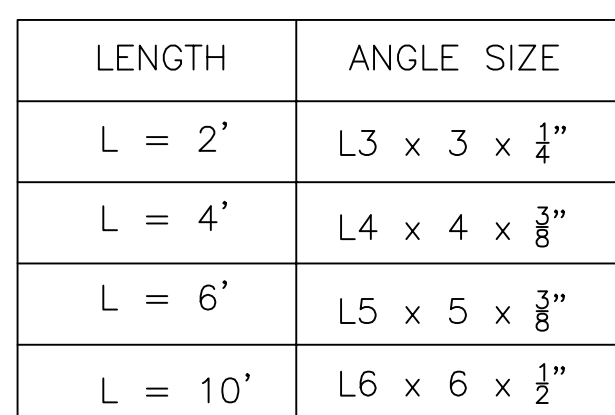
4 MOMENT CONNECTION
NTS

1 BEAM-TO-BEAM OR BEAM-TO-GIRDER
(NON-MOMENT)
NTS

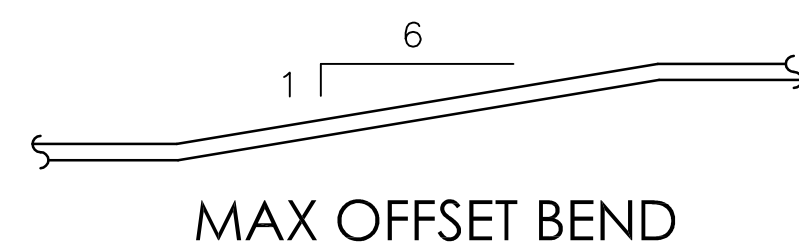


CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:		Date:	ARCHITECT/ENGINEERS:		Drawing Title DETAILS	Project Title EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		Project Number CSI-112		Location LITTLE ROCK, ARKANSAS		Date 2015.03.06		Drawn Michaels		Checked Richardson		Drawing Number SF503		Dwg. 26 of 127		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM		Department of Veterans Affairs	
BES DESIGN/BUILD, LLC		BES DESIGN/BUILD		BES DESIGN/BUILD, LLC		EMERGENCY DEPARTMENT		CSI-112		LITTLE ROCK, ARKANSAS		2015.03.06		Michaels		Richardson		SF503		26 of 127		CENTRAL ARKANSAS		Department of	
2015.03.06		2015.03.06		2015.03.06		EMERGENCY DEPARTMENT		CSI-112		LITTLE ROCK, ARKANSAS		2015.03.06		Michaels		Richardson		SF503		26 of 127		CENTRAL ARKANSAS		Department of	
2015.03.06		2015.03.06		2015.03.06		EMERGENCY DEPARTMENT		CSI-112		LITTLE ROCK, ARKANSAS		2015.03.06		Michaels		Richardson		SF503		26 of 127		CENTRAL ARKANSAS		Department of	



3. WHERE CIRCULAR OPENING OCCURS UTILIZE CURVED ANGLE SIZED PER TABLE.

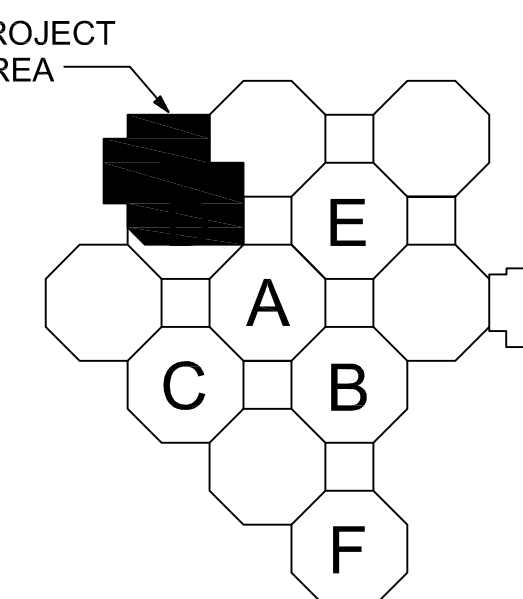


PRINCIPAL REINFORCING

MINIMUM D = 1 1/2" FOR #3
MINIMUM D = 2" FOR #4
MINIMUM D = 2 1/2" FOR #5

TIE OR STIRRUPS

1. ALL BENDS SHALL BE
MADE COLD.



KEY PLAN
EDMH F.F.E.: 398.00'
PROJECT AREA: 17.075 S.F.

**CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED**

**CENTRAL ARKANSAS
VETERANS AFFAIRS
HEALTHCARE
SYSTEM**

Department of
Veterans Affairs

ARCHITECT/ENGINEERS:



BES
DESIGN/BUILD

BES DESIGN/BUILD, LLC
766 Middle St, Fairhope, AL 36532
Phone: 251.990.5778
Fax: 251.990.3716

Drawing Title	DETAILS
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Approved: Project Directo

Project Title	EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS
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Location	
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LITTLE ROCK, ARKANSAS

Drawn

☒ Checked

Project Number

Building Number

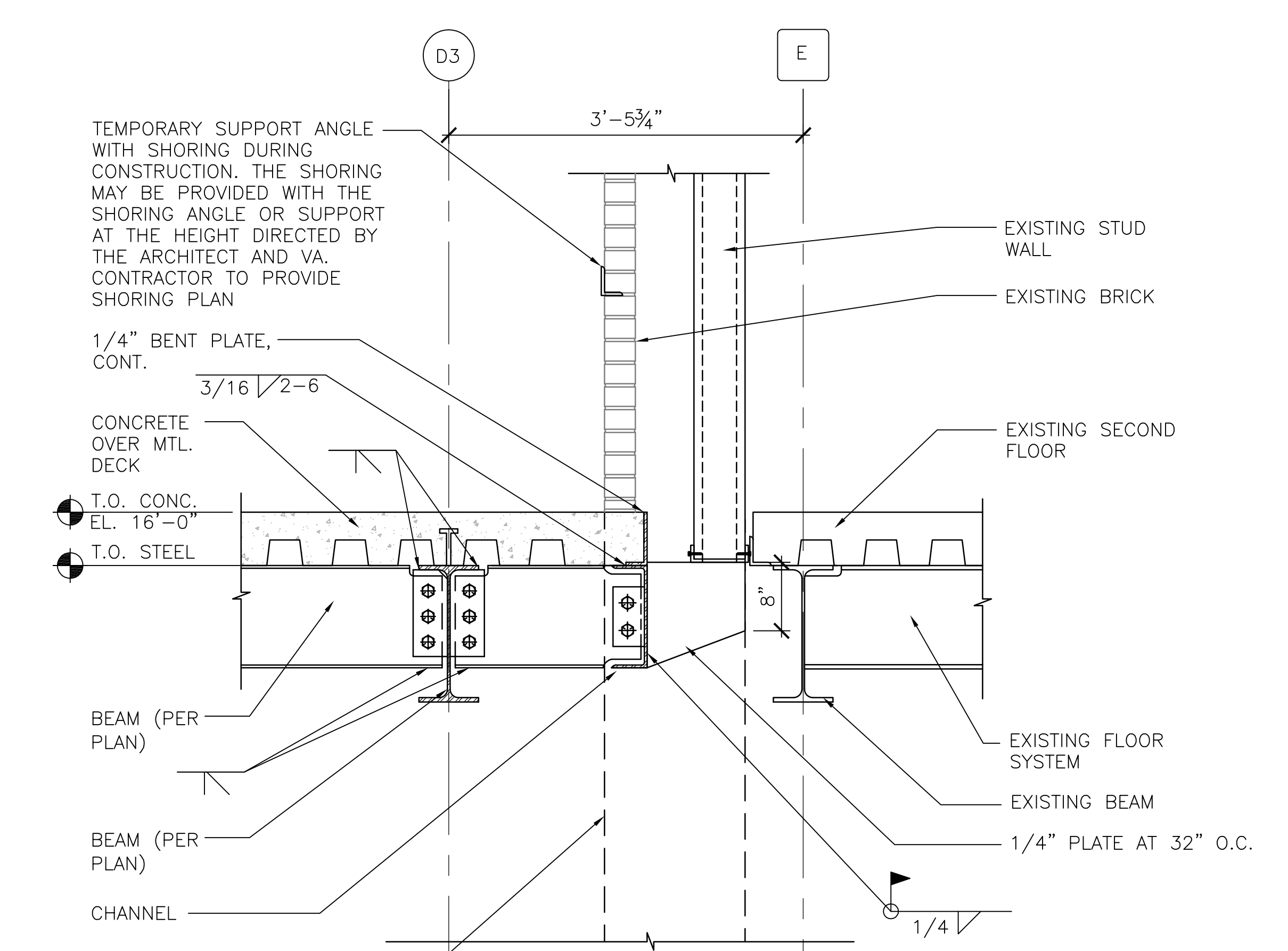
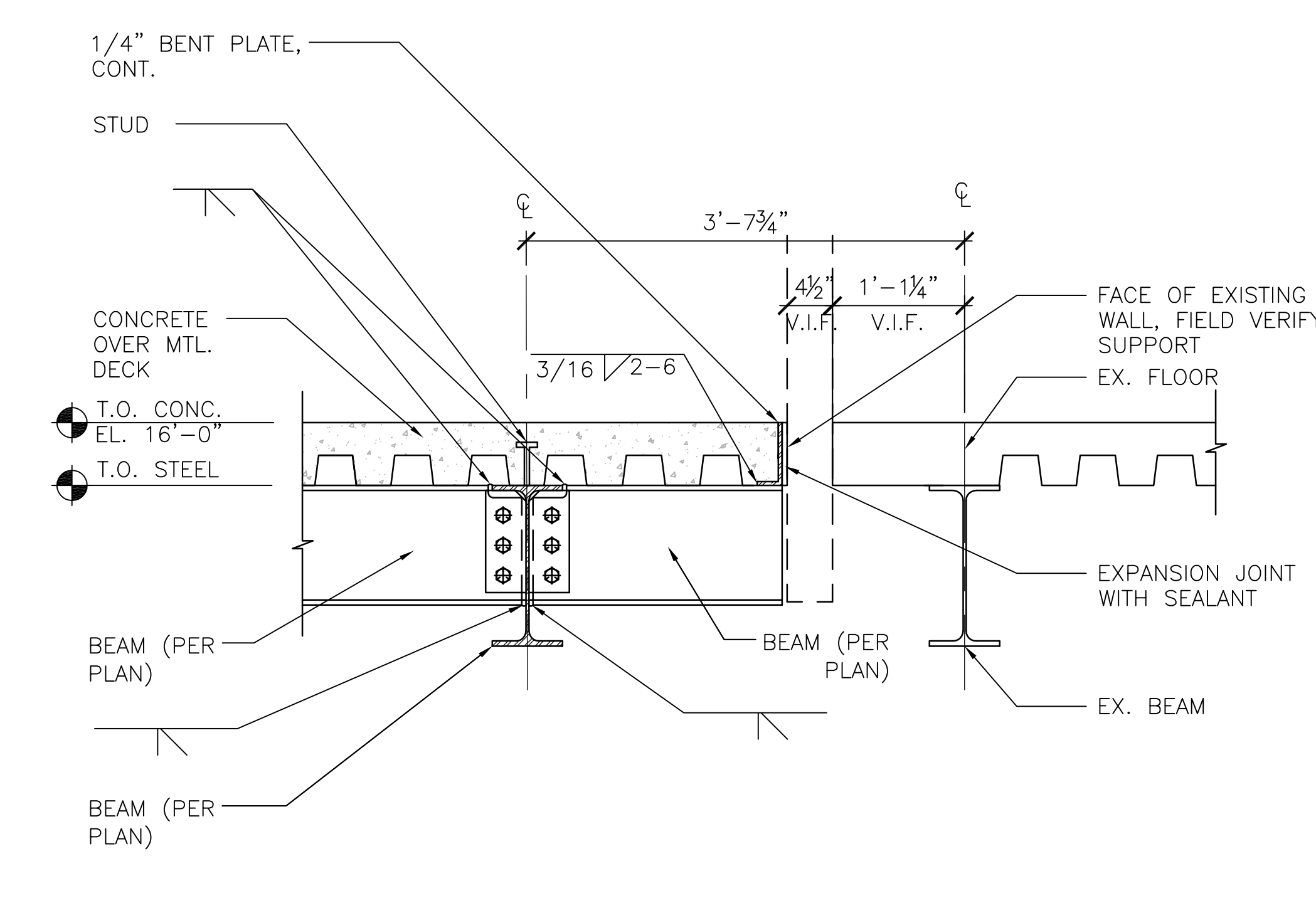
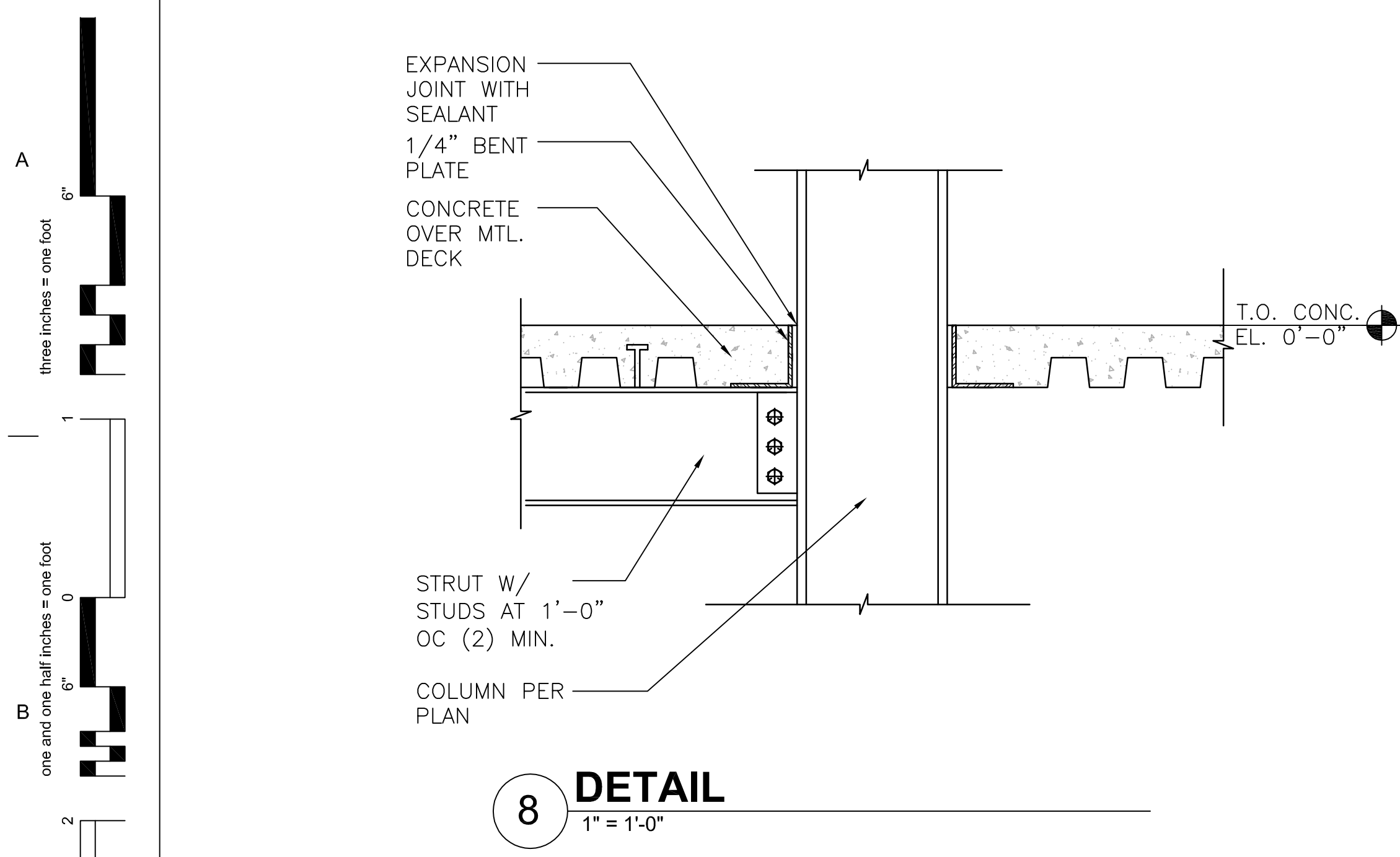
Drawing Number

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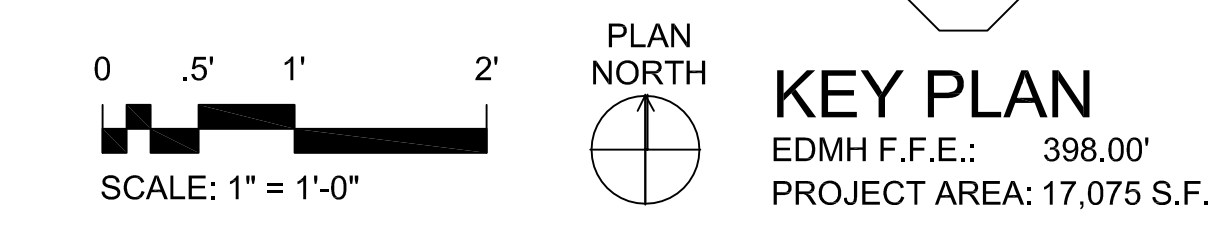
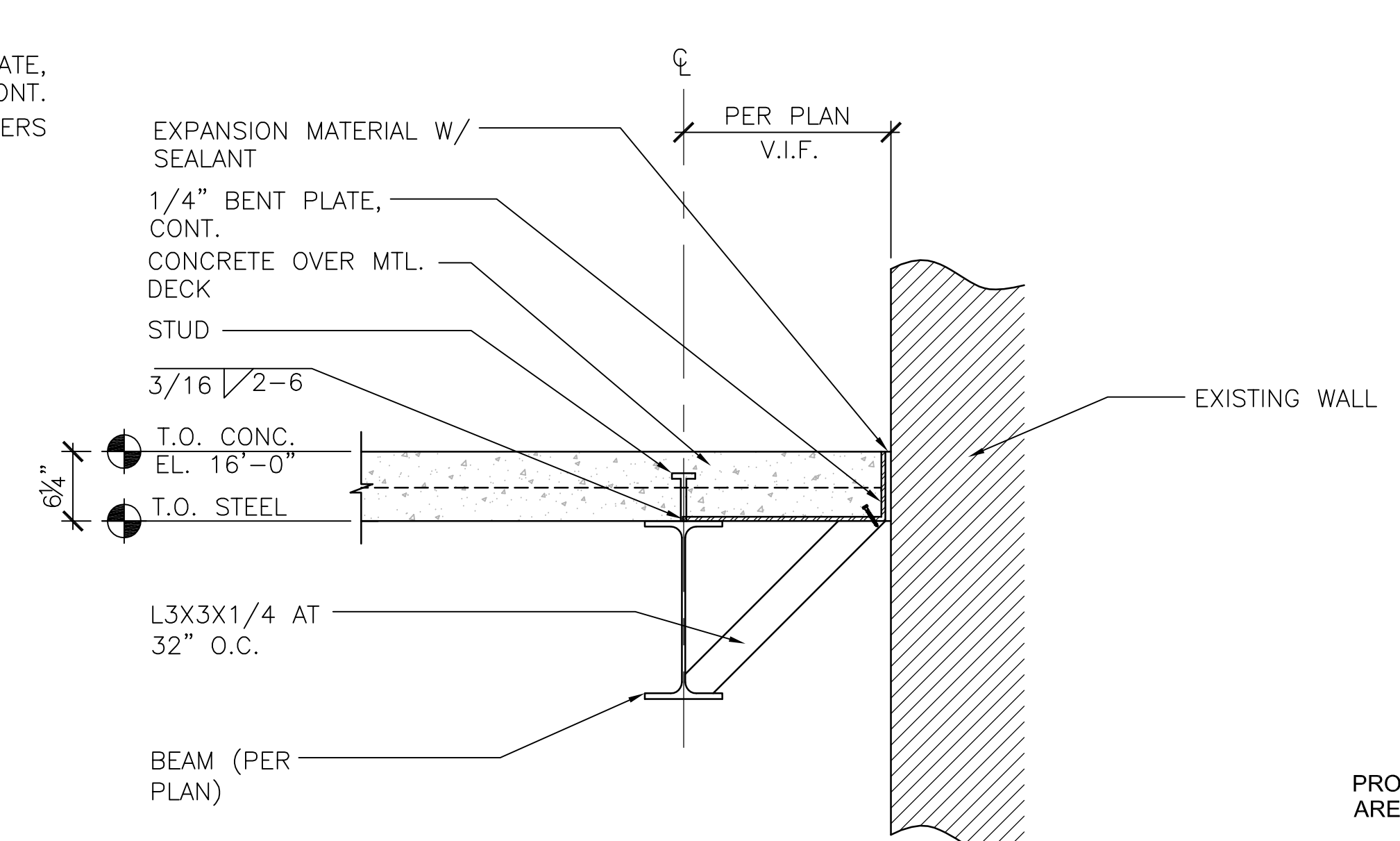
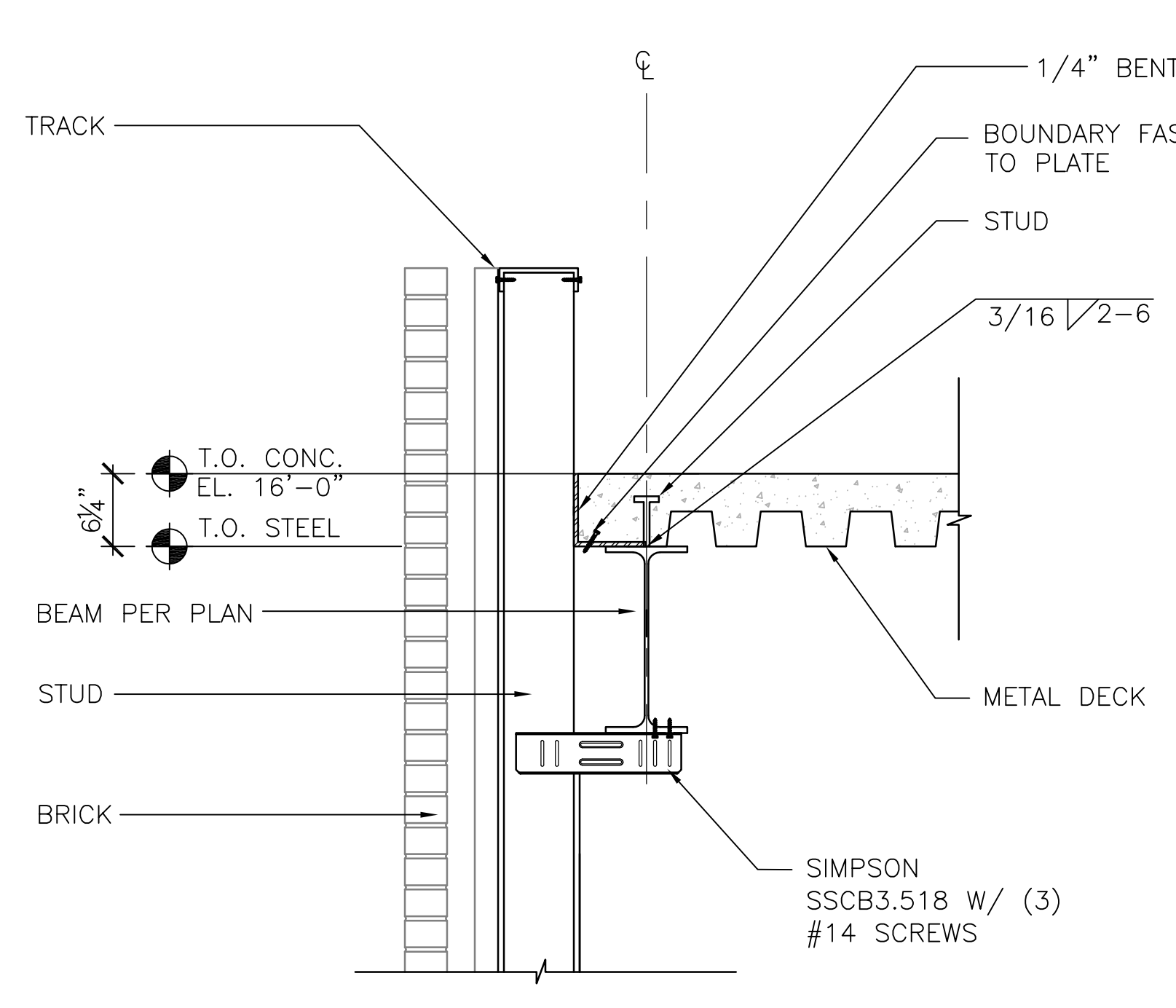
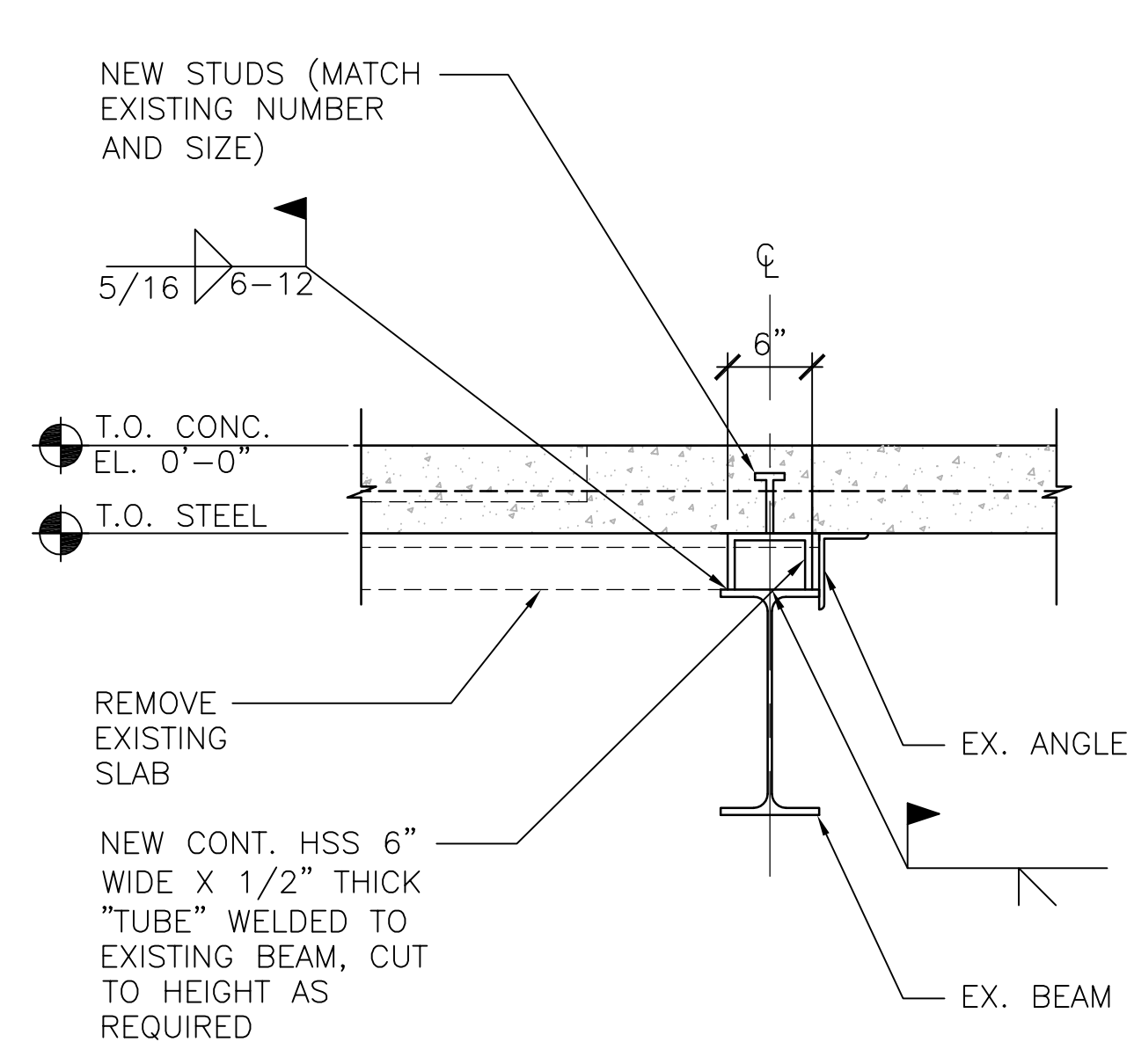
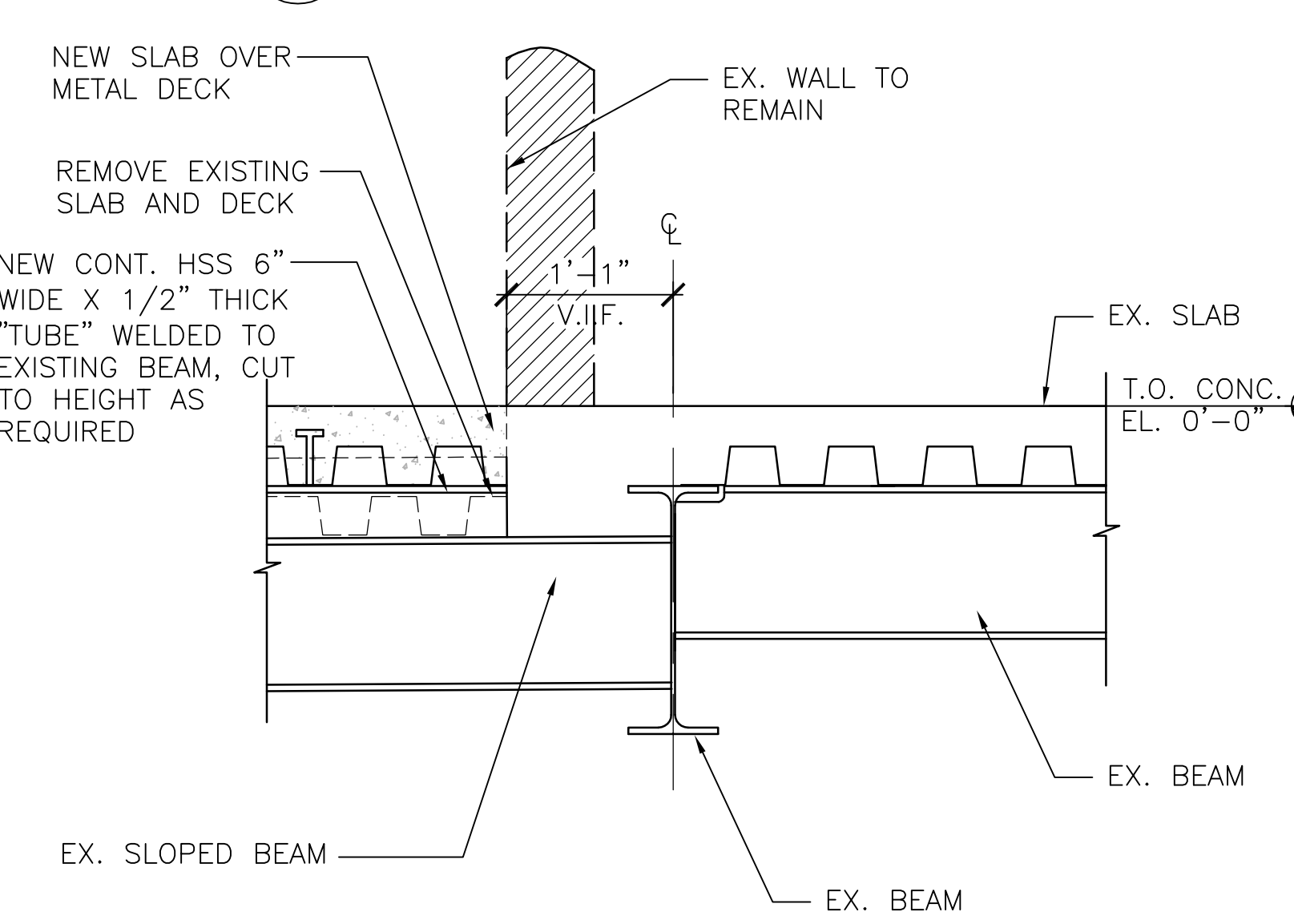
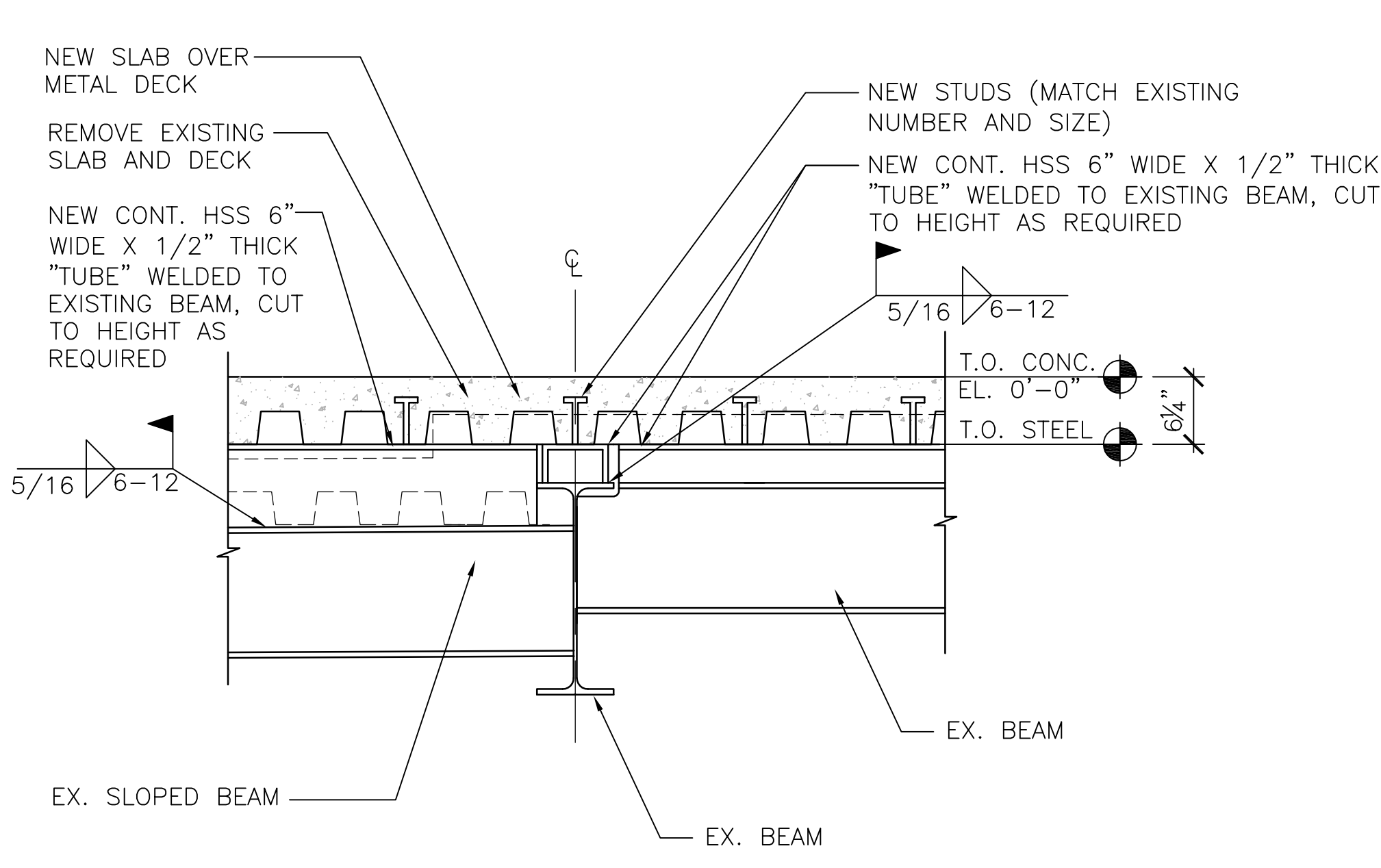
VA FORM 08-6231

A
three inches = one foot
1
one and one half inches = one foot
2
one inch = one foot
3
one inch = one foot
4
three quarters inch = one foot
5
one half inch = one foot
6
one half inch = one foot
7
one half inch = one foot
8
three eighths inch = one foot
9
one quarter inch = one foot
10
one quarter inch = one foot
11
one eighth inch = one foot
12
one eighth inch = one foot
13
one eighth inch = one foot
14
one eighth inch = one foot
15
one eighth inch = one foot

A
B
C
D
E



NOTE: CONTRACTOR SHALL PROVIDE A SAFE INSTALLATION SEQUENCE FOR THE REMOVAL OF THE BRICK WALL. OPTIONS THAT MAY BE USED INCLUDE SHORING, REMOVAL AND REPLACEMENT OF ENTIRE WALL, OR OTHER MEANS APPROVED BY THE VA.

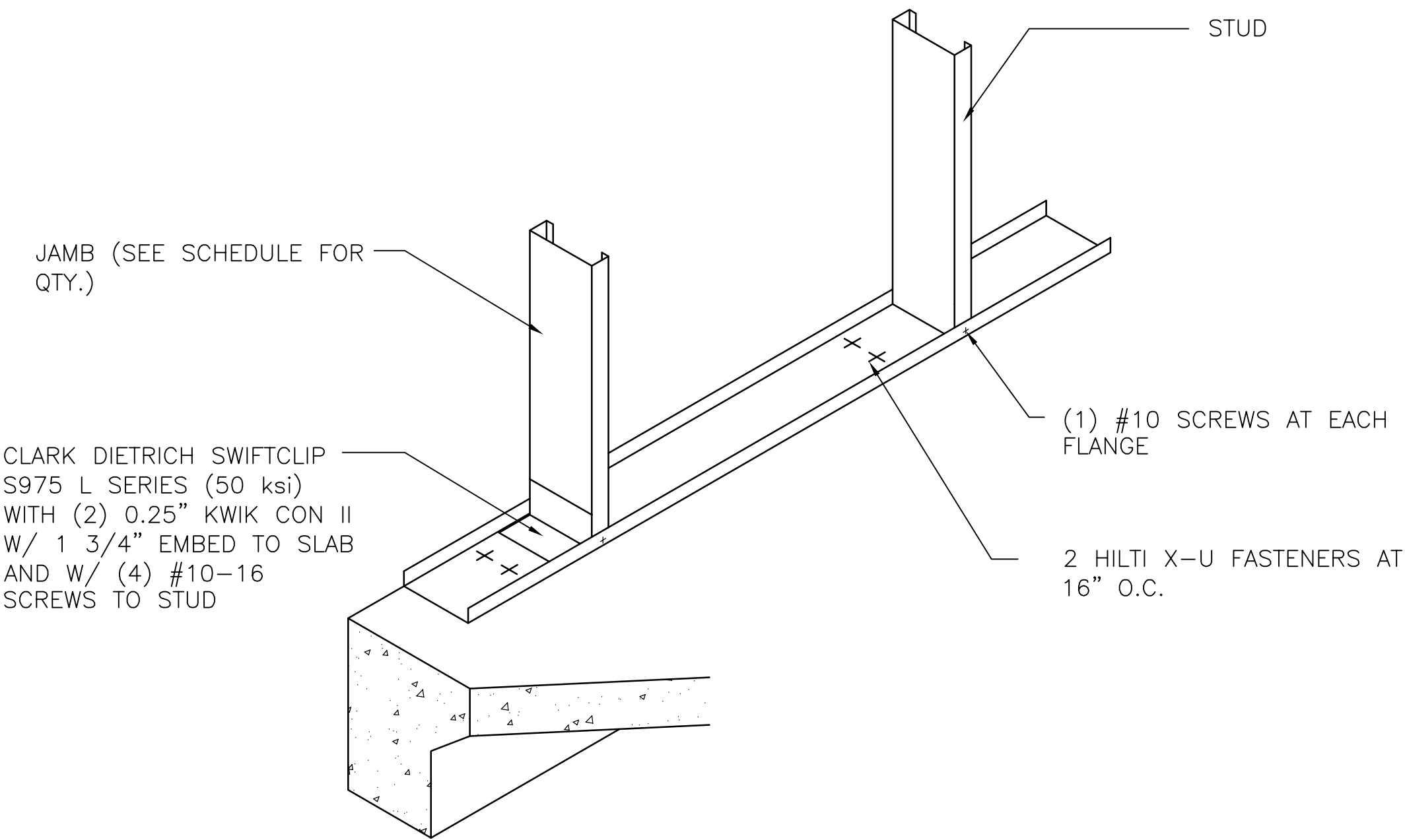
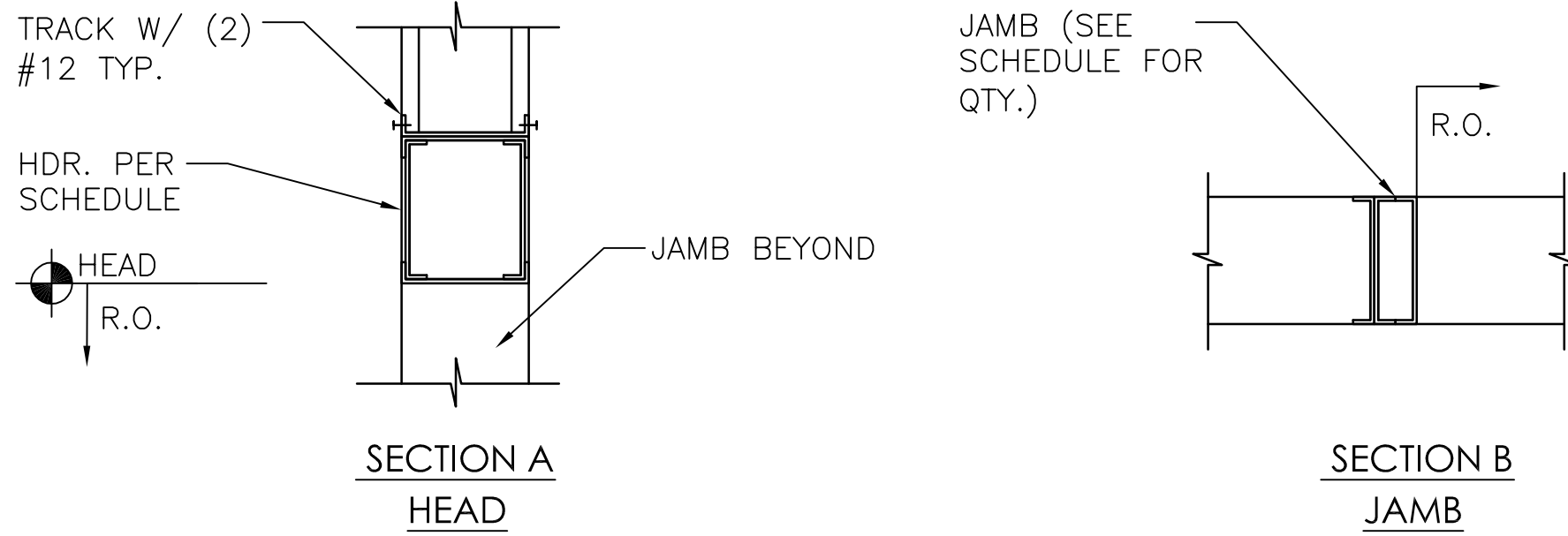
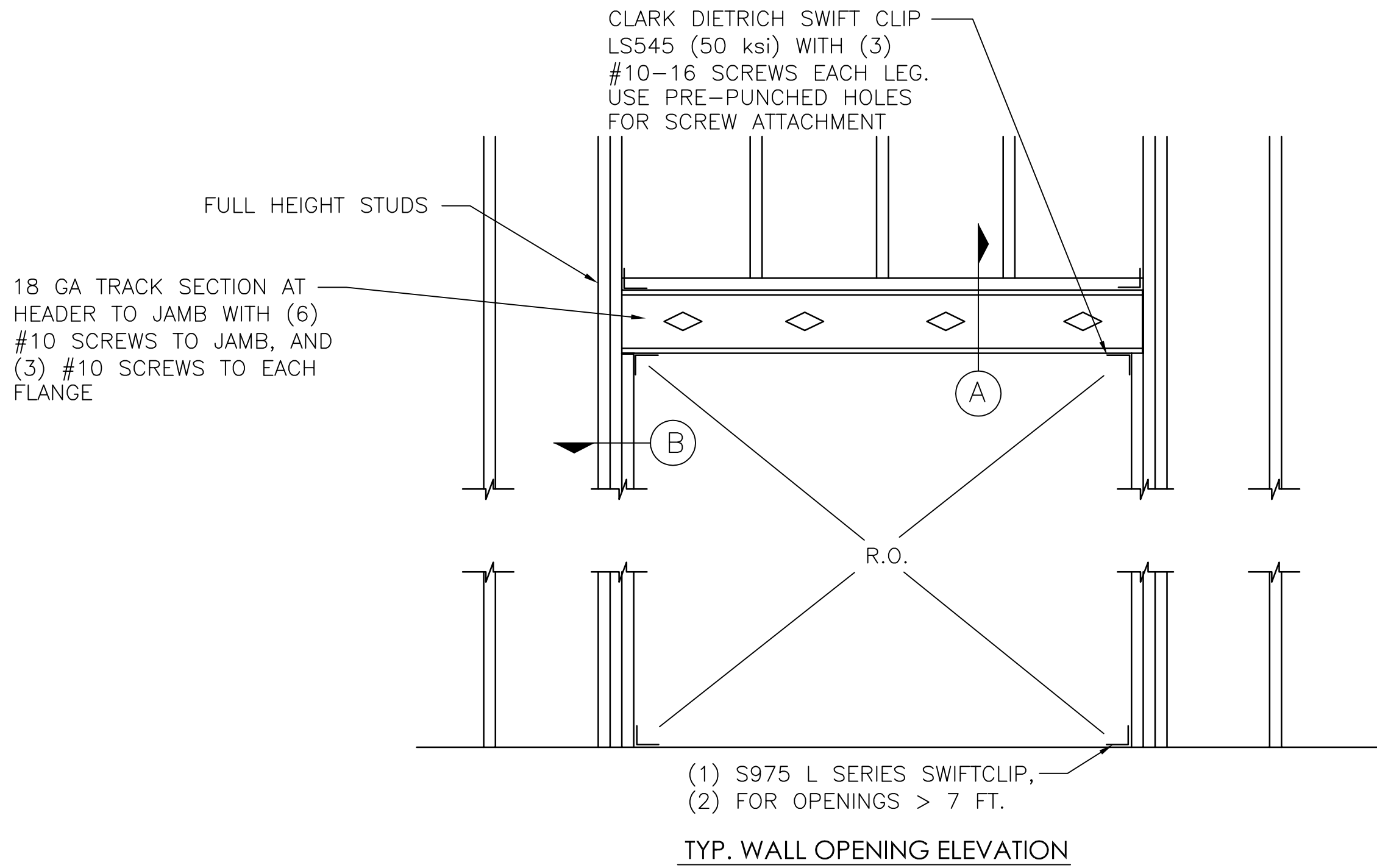


Revisions:		Date:	ARCHITECT/ENGINEERS:		Drawing Title DETAILS	Project Title EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		Project Number CSI-112	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM
			BES DESIGN/BUILD		Approved: Project Director	Location LITTLE ROCK, ARKANSAS		Building Number 1	
			BES DESIGN/BUILD			Date 2015.03.06		Drawing Number SF505	
			BES DESIGN/BUILD			Drawn Michaels		Dwg. 28 of 127	Department of Veterans Affairs
			BES DESIGN/BUILD			Checked Richardson			

6
5
4
3
2
1
A
B
C
D
E
F
m
n

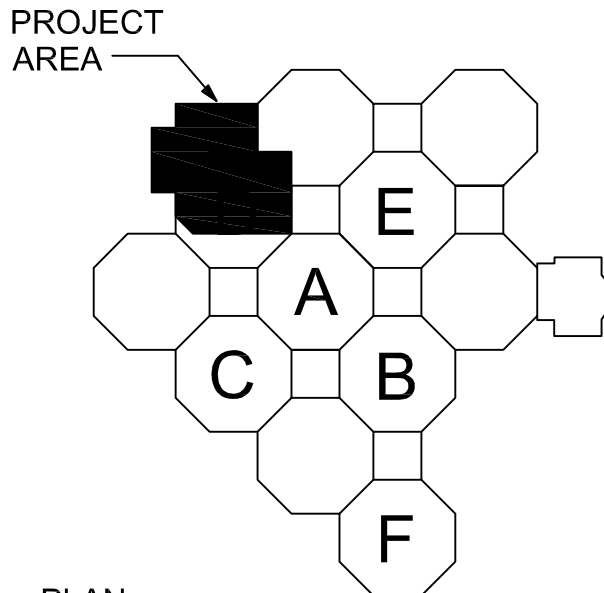
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot

16 FOOT WALL HEIGHTS STUDS: 600S200-43 @ 16" O.C.	OPENING WIDTH	HEADER REQUIRED	FULL HEIGHT STUDS
	< 4 FT.	(2) 6" X 18 GA STUDS W/ (2) 600T200-54 16 GA TRACKS	(2) STUDS MIN. EACH END
	< 7 FT.	(2) 6" X 18 GA STUDS W/ (2) 600T200-54 16 GA TRACKS	(3) STUDS MIN. EACH END
	< 11 FT. 6 IN.	(2) 6" X 18 GA STUDS W/ (2) 600T200-54 16 GA TRACKS	(4) STUDS MIN. EACH END



2 METAL STUD CONNECTIONS
NTS

1 CURTAIN WALL FRAMING AND HEADERS
NTS



KEY PLAN
EDMH F.F.E.: 398.00'
PROJECT AREA: 17,075 S.F.

CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:		Date:				ARCHITECT/ENGINEERS: BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Drawing Title DETAILS		Project Title EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		Project Number CSI-112 Building Number 1		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM	
Date:		2015.03.06		Drawn Michaels		Checked Richardson		Location LITTLE ROCK, ARKANSAS		Drawing Number SF506		Dwg. 29 of 127			